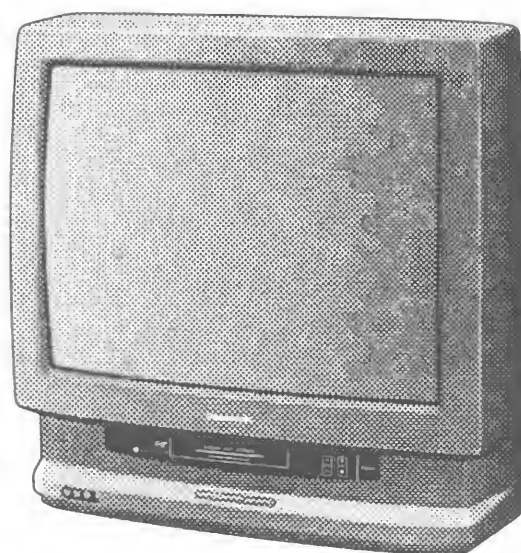


Thank you for choosing

Panasonic OmniVision **VHS**



Combination VCR

MODEL PV-M2767



Easy Taping.

Operating Instructions

Please read these instructions carefully before attempting to connect,
operate or adjust this product. Save this manual.
Spanish Quick Use Guide is included.
Guía para rápida consulta en español está incluido.

P2 ~ P10
Getting Started

P11 ~ P15
Basic TV Operation

P16 ~ P17
Basic VCR Operation

P18 ~ P28
More you Can Do

P29 ~ Back Cover
Other Information

Things You Should Know

Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information at right. The serial number is on the tag located on the back of your Combination VCR.

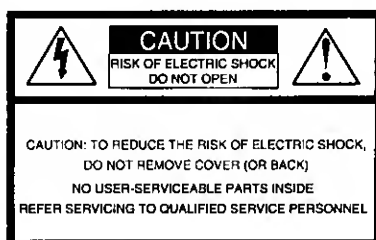
Date of Purchase _____
Dealer Purchased From _____
Dealer Address _____
Dealer Phone No. _____
Model No. **PV-M2767** _____
Serial No. _____

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the **VHS** mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

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Important Safeguards and Precautions

FOR YOUR SAFETY, READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON THE UNIT

INSTALLATION

1 POWER SOURCE CAUTION

Operate only from a power source indicated on the unit or in this manual.

If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home.

2 POLARIZED OR GROUNDING PLUG

As a safety feature, this Video product comes with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug.

POLARIZED PLUG CAUTION:

This plug will only fit into an outlet one way. If you cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not defeat the safety feature by tampering with the plug.

GROUNDING PLUG CAUTION:

This plug will only fit into a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by tampering with the plug.

3 POWER CORD

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic.

If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected.

Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician.

Overloaded outlets and extension cords are fire hazards and should be avoided.

4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes.

For protection follow these rules:

- Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
- Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place the unit over or near any kind of heater or regulator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

6 TO AVOID PERSONAL INJURY

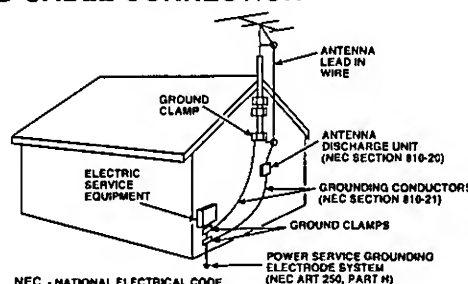
- Do not place unsecured equipment on a sloping surface.
- Support for the unit should be firm, level, and adequately strong.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.



OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION

If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides



information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

An outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.

USING THE VIDEO UNIT

If the unit has been in storage or moved to a new location, refer first to the INSTALLATION section of these safeguards.

1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.

2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

3 DURING AN ELECTRICAL STORM

During a lightning storm, whether indoors or outdoors, or before leaving the unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

4 WHEN THE UNIT IS PLUGGED IN

- Never expose the unit to rain or water. DO NOT OPERATE if liquid has been spilled into the unit. Immediately unplug the unit, and have it inspected by a service technician. Fire and shock hazards can result from electrical shorts caused by liquid contact inside.
- Never drop or push any object through openings in the unit. Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

5 USING ACCESSORIES

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

6 CLEANING THE UNIT

Unplug the unit. Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into the unit and cause electrical shock. Any substance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

SERVICE

1 DO NOT SERVICE THIS PRODUCT YOURSELF

If, after carefully following the detailed operating instructions, this Video product does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug the unit and contact a qualified service technician.

2 IF REPLACEMENT PARTS ARE REQUIRED

Make sure the service technician uses only parts specified by the manufacturer, or those having the same safety characteristics as the original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

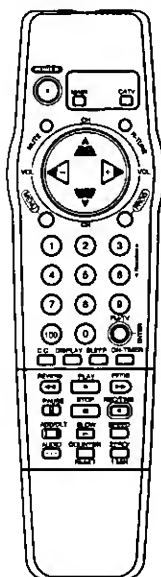
After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacturer's service literature to insure that the video unit is in safe operating condition.

Unpacking Your Combination VCR • Product Features

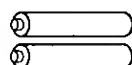
Unpacking Your Combination VCR

The accessories shown below are provided to help you use or set up your Combination VCR.

Accessories



Remote Control
VSQS1483

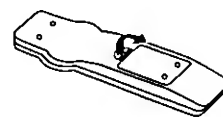


2 "AA" Batteries

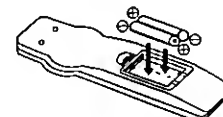
To order accessories,
call toll free 1-800-332-5368.

Load the batteries

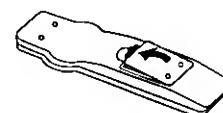
- 1** Push in and up on the latch with your thumb nail and lift off the lid.



- 2** Install two batteries as indicated inside the Battery Compartment.



- 3** Fit the lid's hinge piece into the indent on the case, and snap the lid into place.



Battery replacement caution

- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.

Product Features

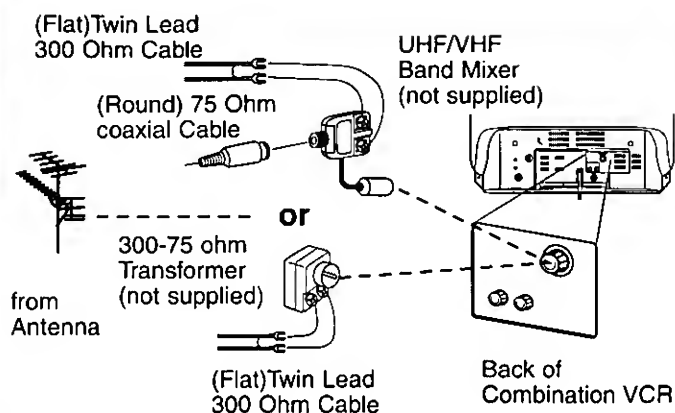
| | |
|--|--------------|
| Alarm Timer | 13 |
| All Channel Auto Set/181-CH TV/CATV Tuner | 8 |
| Auto Clock Set | 8, 9 |
| Auto Daylight Saving Time | 29 |
| Auto Operation Functions (Auto Shut Off, Auto Playback, Rewind, Tape Eject, Power Off) | 24 |
| Auto Repeat Function | 24 |
| Cable Box Universal Remote Control Feature | 25 |
| Closed Caption System | 14 |
| Easy-to-Read English/Spanish/French On Screen Displays | 8, 9, 18, 19 |
| FM Radio | 15 |
| Front-mounted A/V In Terminals | 19 |
| MTS Broadcast System | 22 |
| One Minute Skip | 24 |
| One Month, 8 Program Auto Timer Recording | 18, 19, 28 |
| One Touch Recording (OTR) | 17 |
| PanaBlack™ Picture Tube | 16 |
| Quick Play Mechanism | 30 |
| Rapid Tune | 11 |
| Spatializer | 23 |
| Speaker On/Off System | 21 |
| Special Effects Playback | 16 |
| Special VCR Features (VCR Lock, Warning Beeper) | 20 |
| VCR Plus+ Recording | 28 |
| VHS Hi-Fi Stereo System | 23 |
| Zero Search | 24 |



Antenna or Cable Connections

Outdoor Antenna Connection

Unhook the antenna from your previous TV or VCR and connect it to the back of the Combination VCR as shown in the diagram. If your antenna system has separate UHF and VHF lead-ins, you need a UHF/VHF Band Mixer (not supplied).



Cable Connections

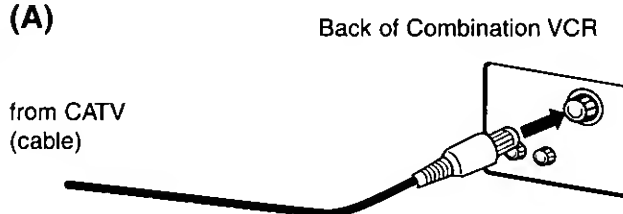
(A) Without a Converter/Descrambler Box

With this connection, you can: use your Combination VCR remote control to select channels for viewing and select unscrambled channels for timer recording. Scrambled channels may not be viewed or recorded with this connection.

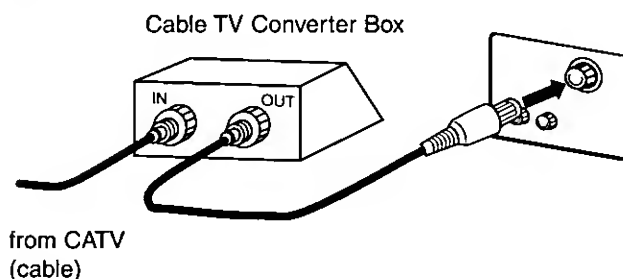
(B) With a Converter/Descrambler Box

With this connection, you may record and view any channel including scrambled channels. Please note, however that channel selection must be made at the cable company converter box. Timer recording is limited to one channel at a time, and you can only view the channel you are recording.

(A)



(B)



To Watch and Record Scrambled/Unscrambled Channels

Set the Combination VCR to the output channel of the cable converter box (e.g. CH3). Now, select channels to be viewed or recorded at the cable converter box.

FCC WARNING: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

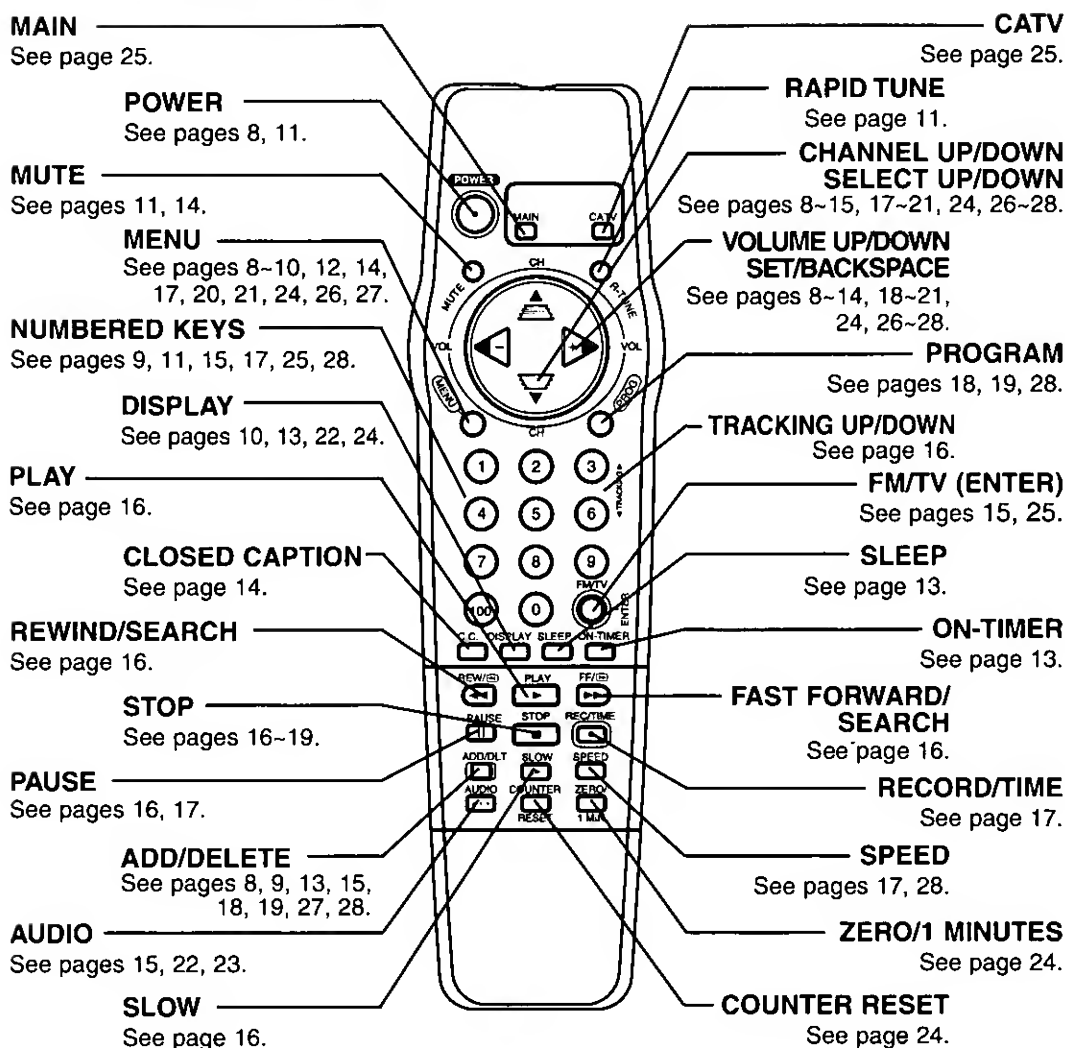
Note to CATV System Installer

This reminder is provided to call the CATV (Cable TV) System Installers attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

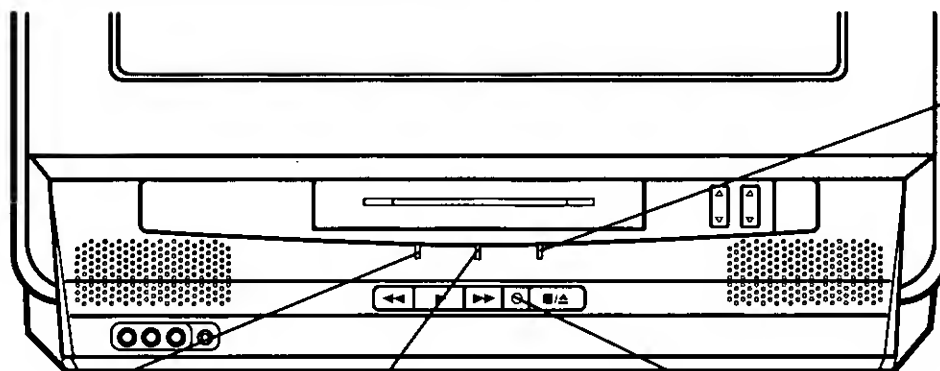


Location of Controls

Remote Control Buttons



Indicators on the Front Panel



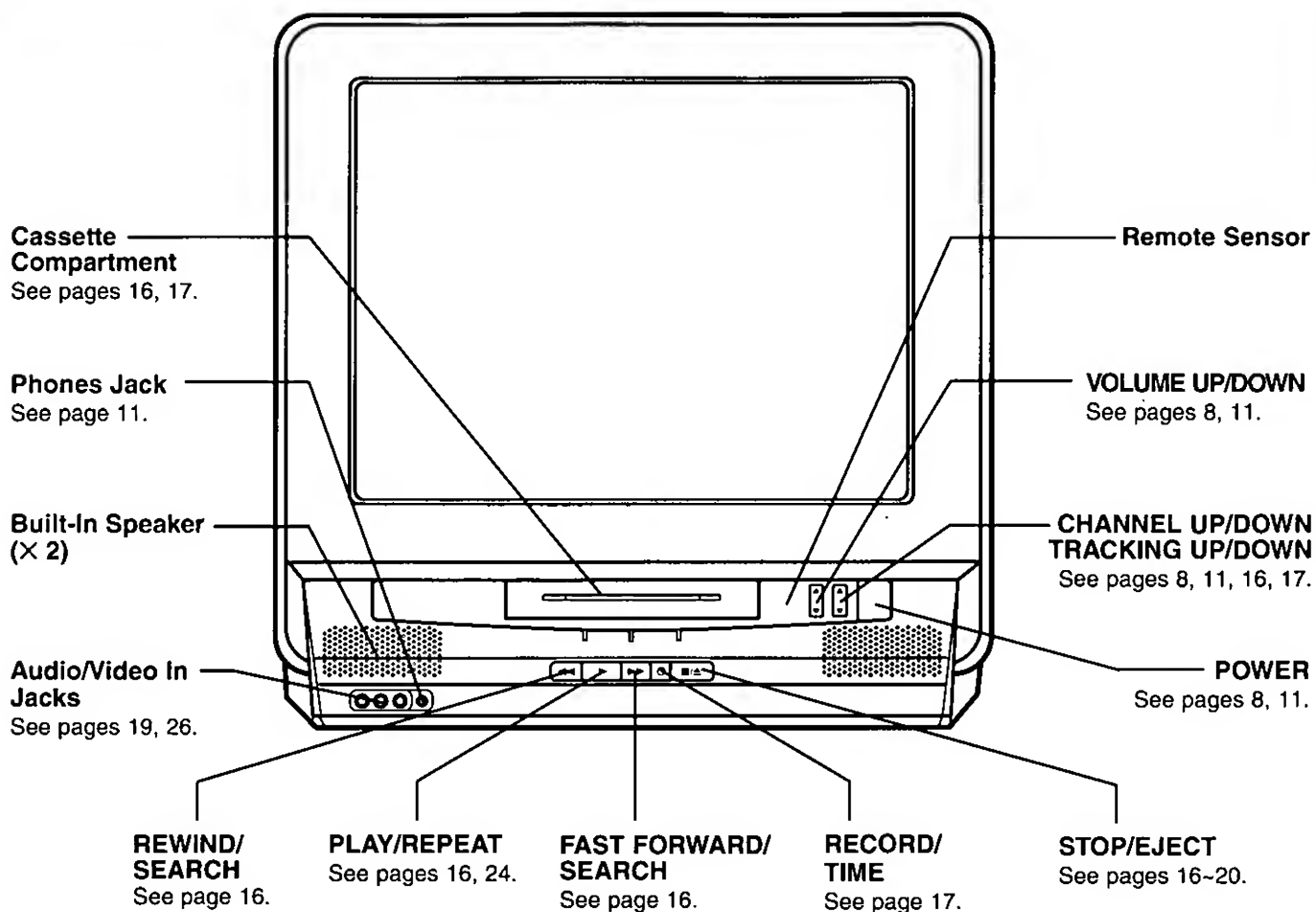
ON TIMER Indicator
Lights when the On Timer is set.
See page 13.

REPEAT Indicator
Lights when "REPEAT PLAY: ON" is selected and playback is in progress.
See page 24.

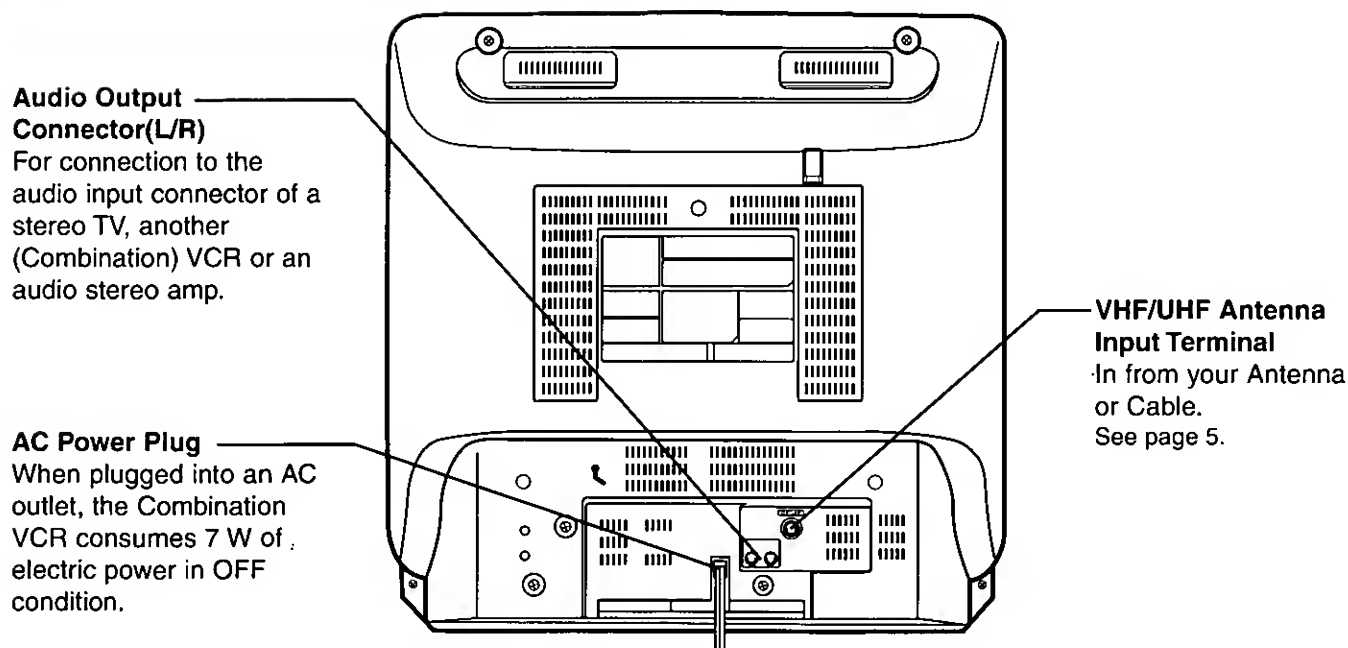
RECORD Indicator
Lights during recording. In Rec Pause or OTR Pause mode, the indicator flashes.
See page 17.

PROGRAM TIMER Indicator
Lights when the Combination VCR is set for Timer Recording. It flashes when a Timer Recording has been set, with no tape inserted, the clock is not set, or the tape is in motion.
See pages 17~19, 28.

Front View of the Combination VCR



Rear View of the Combination VCR

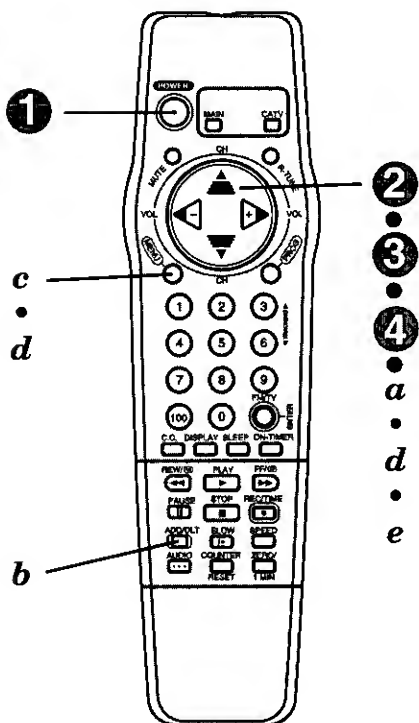
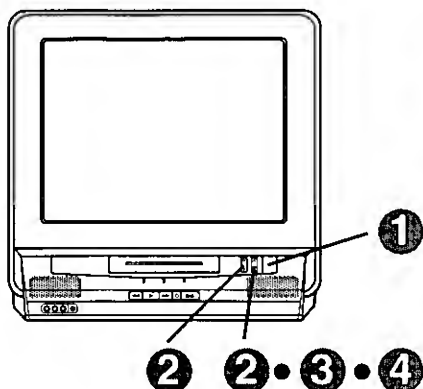





One Time Setup

✓ Check list before you begin.

- ☐ Your Combination VCR is connected to an Antenna, or Cable system (see page 5).



Using the keys

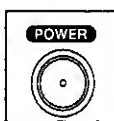
Whenever a menu or program screen is displayed, CHANNEL UP/DOWN and VOLUME UP/DOWN on the remote control function as  only. For VOLUME UP/DOWN functions, use the buttons on the Combination VCR.



To Set Language, Channels, and Clock

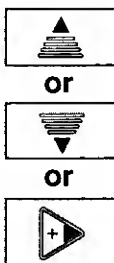
When the Combination VCR power is first turned on the channel auto set and set clock screens appear automatically.

1



Push **POWER** to turn the Combination VCR on.

2



Push , , or  for on-screen displays in English, Spanish or French.

- If you choose the wrong language, please see the "Reset all Combination VCR Memory Functions" section on page 29.

- If you use a cable box, the cable box must be left on for auto channel set.


SELECT LANGUAGE

PUSH CH ▲ :English
PULSE CH ▼ :Español
APP. VOL + :Français

3



Important: If you use a cable box, turn it on and select PBS station in your time zone.

Push  to start Channel Auto Set and Clock Auto Set.

CHANNEL/CLOCK AUTO SET

CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN...

PLEASE PUSH CH UP KEY

These on-screen displays will appear in sequence.

- CH AUTO SET PROCEEDING
- CH AUTO SET COMPLETED
- AUTO CLOCK SET PROCEEDING

Case 1


7/28/1997 MON 12:00PM
DST: ON
SETTING : CH 10
AUTO CLOCK SET
COMPLETED
END : PUSH CH UP KEY

Case 2

AUTO CLOCK SET
IS INCOMPLETE










PUSH MENU TO SET CLOCK

4

Case 1 Confirm that displayed time is correct and push  to exit.

If the displayed time and D.S.T. are incorrect,

In the rare event that you live within broadcast range of two PBS stations in two different time zones, the Combination VCR may recognize the wrong PBS station. To correct this situation, do the following:

- Make a note of the SETTING: CH number shown on-screen and push  to exit.
- Delete the setting channel from the Combination VCR channel memory. (See the Add or Delete a Channel section on the next page.)
- Push MENU to display the menu.
- Push , , ,  to select "CLOCK," and then push MENU to display the SET CLOCK screen.
 - If you use a cable box and have multiple PBS stations, tune the cable box to a different PBS station and try auto clock set again using the menu.
- Push ,  to select "AUTO SET," and then push  to set and to  start.



- Auto clock set will be performed when the Combination VCR is turned off the first time each day. If you use a cable box and you want auto clock set to be performed, the cable box must be left on and tuned to the PBS channel at the time the Combination VCR power is turned off.
- If for any reason the time is changed manually, automatic time correction will not occur.

Case 2 If AUTO CLOCK SET IS INCOMPLETE appears, please set the clock manually.

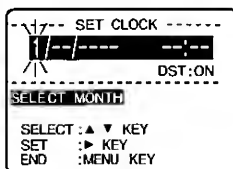
a. Push MENU to display the SET CLOCK screen.

b. Push $\Delta \nabla$ to select and \triangleright to enter the month, date, year, time, and D.S.T. (Daylight Saving Time).

To Make Corrections,

push $\triangleleft \triangleright$ repeatedly to move back or forward to the desired item.

c. Push MENU to start the clock. Then, push $\Delta \nabla \triangleleft \triangleright$ to select "EXIT." Now, push MENU to exit the MAIN MENU.

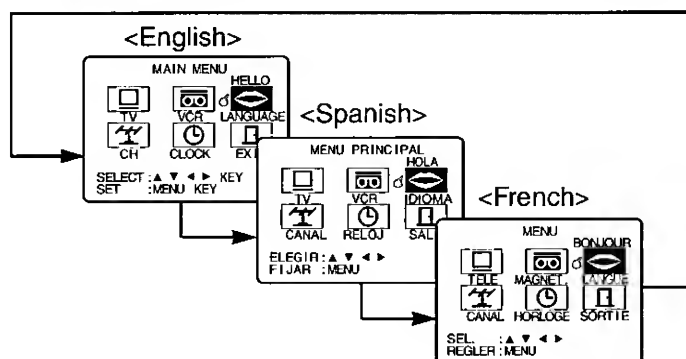


- "DST:ON" automatically adjusts for daylight saving time. (See page 29.)

To Change or Re-enter One Time Setup Items

To Change the OSD Language

- 1 Push MENU to display the MAIN MENU.
- 2 Push $\Delta \nabla \triangleleft \triangleright$ to select the language selection icon.
- 3 Push MENU repeatedly to change the language as shown.



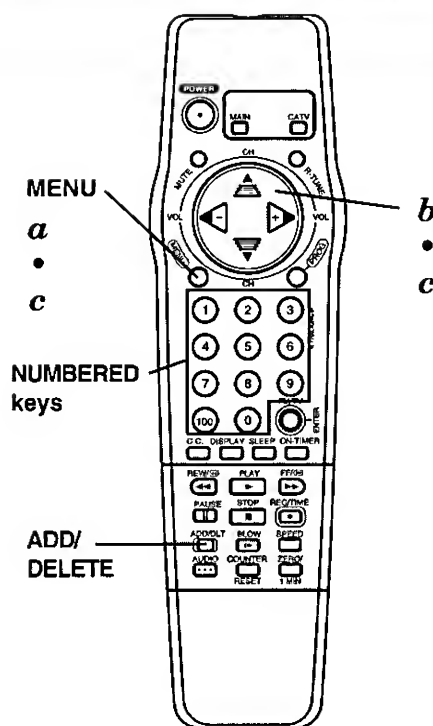
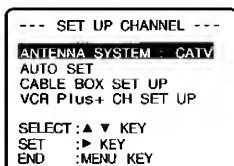
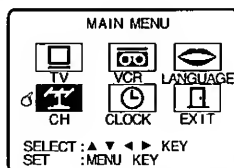
- 4 Push $\Delta \nabla \triangleleft \triangleright$ to select "EXIT," and then push MENU to exit the MAIN MENU.

To Replace Channels in Memory

In case, you have cable installed, etc.

- 1 Push MENU to display the MAIN MENU.
- 2 Push $\Delta \nabla \triangleleft \triangleright$ to select "CH," and then push MENU to display the SET UP CHANNEL screen.
- 3 Push $\Delta \nabla$ repeatedly to select ANTENNA SYSTEM, and then push \triangleright to select your antenna system (TV or CATV).
- 4 Push $\Delta \nabla$ to select AUTO SET, and then push \triangleright to start.

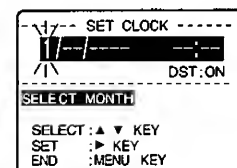
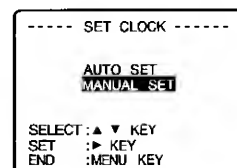
- To exit this mode, push MENU. Then, push $\Delta \nabla \triangleleft \triangleright$ to select "EXIT." Now, push MENU to exit the MAIN MENU.



To Set or Reset the Clock

In case the clock is wrong, or a power failure occurred.

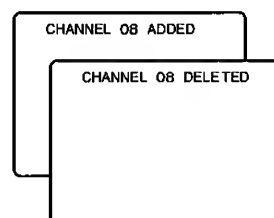
- 1 Push MENU to display the MAIN MENU.
- 2 Push $\Delta \nabla \triangleleft \triangleright$ to select "CLOCK." Then, push MENU to display the SET CLOCK screen.
- 3 Push $\Delta \nabla$ to select "MANUAL SET," and then \triangleright to display the SET CLOCK screen.
- 4 Please do steps b and c at the top of this page.



To Add or Delete a Channel

- 1 Select a channel using the NUMBERED keys to add or the CH $\Delta \nabla$ to delete.
- 2 Push the ADD/DEL to add or delete the channel.

- To select a channel once it's deleted, use the NUMBERED keys.



- This Combination VCR will accurately maintain its calendar up to Dec. 31, 2089, 11:59PM.
- Normal TV or Cable channels are automatically selected and placed in memory depending on how your Combination VCR is hooked up.



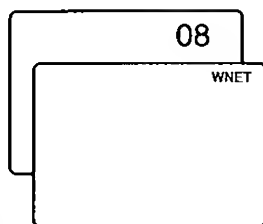
On Screen Displays (OSD)

Channel & Function Display

Whenever the channel is changed, the channel number will appear for a few seconds on-screen. (Some station names may also appear.)

When a function button is pushed (PLAY, FF, etc.), the Combination VCR mode will be displayed.

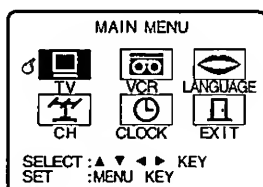
- When a recording is started, both REC and the channel number will appear together.



Menu Screen

- 1 Push MENU to display the MAIN MENU.
- 2 Push Δ ∇ \leftarrow \rightarrow and MENU to make your selection (see page 8).

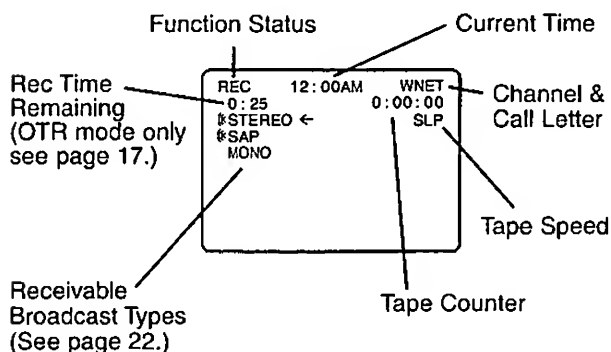
- To get the most from each feature, please read the Operation Manual before attempting any operation.



VCR Status & Clock Display



Push DISPLAY to display and remove the overlay shown below.



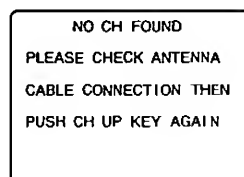
Blank Tape/ No Video Signal Indication

When a blank section of tape comes up in Play mode, or the selected channel has no broadcast signal, the TV screen will turn solid blue.

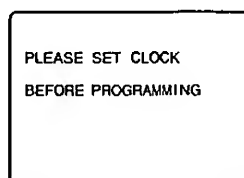
Warning and Instruction Displays

These displays will alert you of a missed operation or provide further instructions.

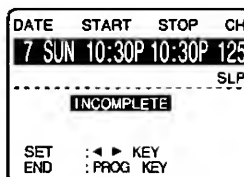
If no active channels are found for CHANNEL MEMORY... (see page 5.)



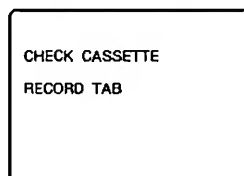
If you attempt to set or review a Timer Recording or set the On Timer and the Clock is not set... (see pages 8, 9.)



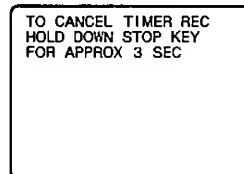
If a Timer Program was not completed before exiting the Program mode... (see pages 18, 19.)



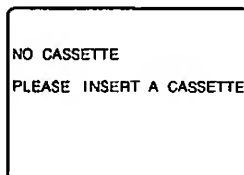
If you push REC on the remote control or the Combination VCR, and a cassette is inserted with no record tab... (see page 29.)



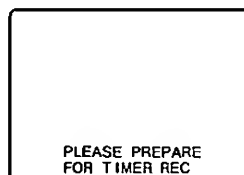
If you push STOP during a Timer Recording... (see page 19.)



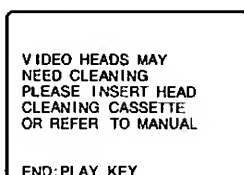
If you push PLAY, FF, REW, or REC on the remote control or the Combination VCR without a cassette inserted... (see pages 16, 17, 24.)



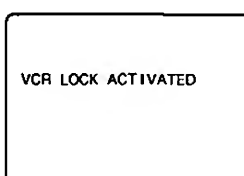
If Combination VCR is not in Stop mode or a cassette with record tab is not inserted two minutes before a Timer Recording is about to begin... (see pages 18, 19.)



If head cleaning becomes necessary while playing back a tape... (see page 29.)



If you push a function button other than STOP/EJECT or POWER while the Combination VCR is in VCR Lock mode... (See page 20.)

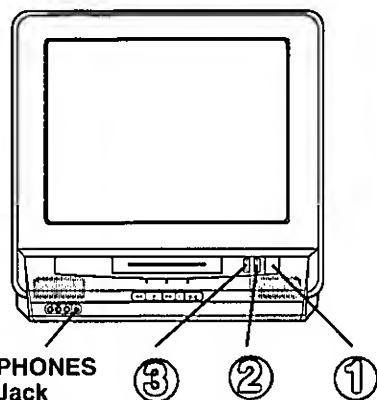




TV Operation

✓ Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



①

POWER

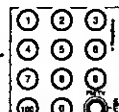


Push POWER to turn the Combination VCR on.

②



or



Select a channel using ▲ ▼ or the NUMBERED keys.

③



Push VOL ▲ ▼ to adjust the volume level.

24 |||||.....

Using the 100 key

When selecting CATV channels 100 to 125 with the NUMBERED keys, first push the 100 key, and then enter the remaining two digits. For example, for channel 125: Push the NUMBERED keys 100-2-5.

Rapid Tune

Push R-TUNE to display the last channel you were watching.

- When selecting channels with CH ▲ ▼, the channels must be displayed for at least 4 seconds in order for the Combination VCR to recognize them as a new selection.

Previous channel Present channel

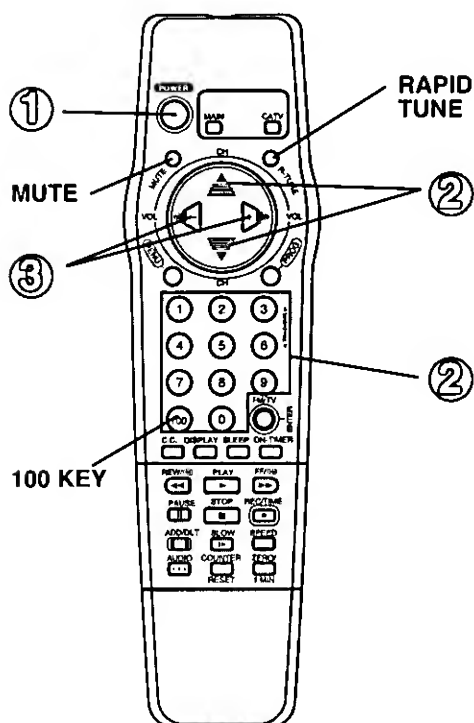
CH08 ↔ CH10

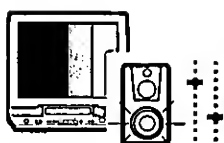
Audio Mute

Push MUTE to instantly mute the sound. Push again, to restore the previous sound level.

Phones

Connect an earphone (not supplied) or headphone (not supplied) to the Phones Jack.



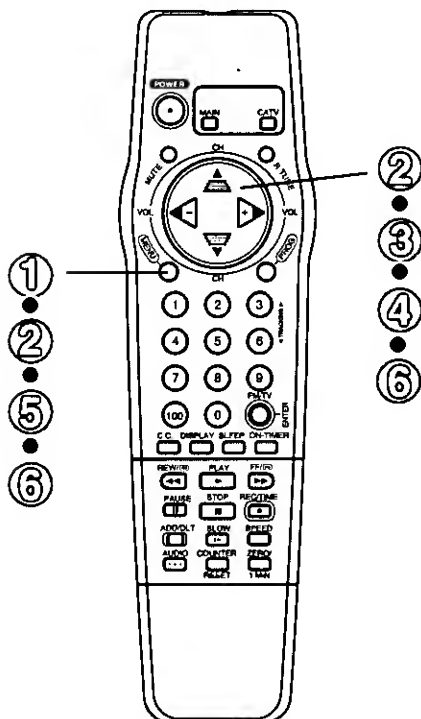


Audio/Picture Adjustment



Check list before you begin.

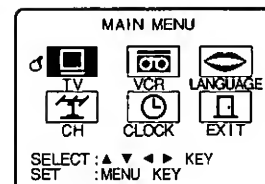
- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



①



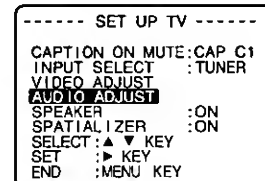
Push MENU to display the MAIN MENU.



②



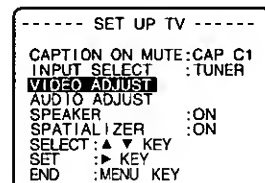
Push ▲ ▼ ◀ ▶ to select "TV," and then push MENU to display the SET UP TV screen.



③



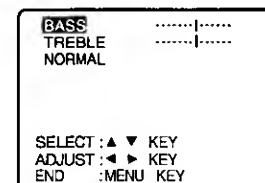
Push ▲ ▼ to select "AUDIO ADJUST" or "VIDEO ADJUST," and then push ▶ to display the AUDIO ADJUST or VIDEO ADJUST screen.



④



Push ▲ ▼ repeatedly to select the desired adjust item, and then push ◀ ▶ to adjust. (See description at left.)



Audio Adjustment

BASS Control

To adjust the intensity of low frequency sound.

TREBLE Control

To adjust the intensity of high frequency sound.

- The levels set here do not affect other audio equipment when connected to the Audio Output L/R Connector.

Picture Adjustment

COLOR Control

To adjust the intensity of the colors.

TINT Control

To adjust for the most natural flesh tones.

BRIGHT Control

To adjust the brightness of the picture.

PICTURE Control

To adjust the intensity of the picture by adjusting contrast and color level at the same time and in the proper balance.

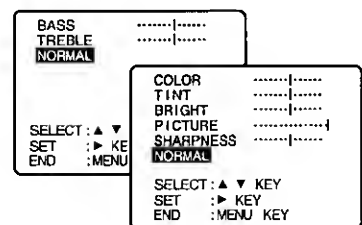
SHARPNESS Control

To adjust the sharpness of the picture.

To Reset Audio/Picture Controls to the Factory Setting

Push ▲ ▼ and ▶ to select and set NORMAL.

All controls return to factory settings.



⑤



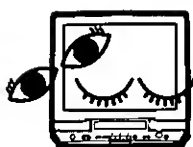
Push MENU twice to exit the VIDEO ADJUST mode.

- If no button is pushed within 5 minutes, the audio or video adjust overlay disappears.

⑥



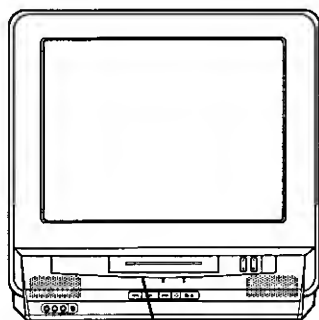
Push ▲ ▼ ◀ ▶ to select "EXIT," and then push MENU to exit the MAIN MENU.



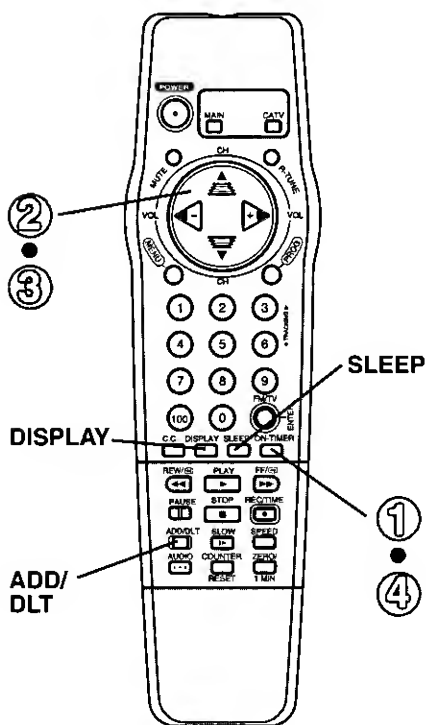
TV Timer Features

✓ Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



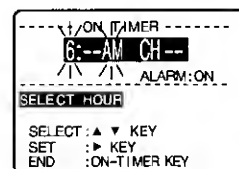
ON TIMER Indicator



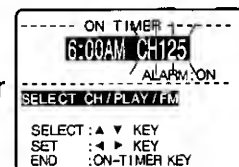
On Timer with Alarm Feature

The Combination VCR can be set to automatically power on in one of 3 modes (TV, Playback, or FM radio). You can also combine the On Timer with a one minute alarm that gradually increases in volume.

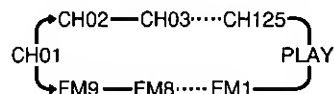
- ① Push ON TIMER to display the ON TIMER screen.



- ② Push ▲ ▼ to select and ► to fix the On Timer time and then to choose the On Timer mode (TV, PLAY, or FM radio). See the ▲ ▼ selection order shown at right.



- Make sure a tape is inserted if VCR Playback mode is selected.
- See "FM Radio Feature" on page 15 for instructions on how to preset FM stations.



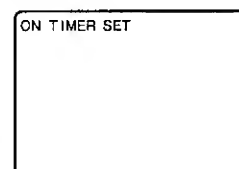
- ③ Push ▲ ▼ to select alarm "ON" or "OFF".



When "ON" is selected, an alarm will gradually increase in volume for one minute or until cancelled by pushing any button on the remote or Combination VCR (including Volume UP/DOWN). When the alarm sound stops, the sound of the mode you selected will ensue.

To Make Corrections, use ▲ ▼ and ◀ ▶ to move back and correct as necessary.

- ④ Push ON TIMER to set the On Timer. This screen will appear for about 5 seconds.



- The ON TIMER indicator lights on the front panel.

To Cancel, push ON-TIMER to redisplay the screen in step 3. Then, push ADD/HLT to clear the time ("6" is flashing). Now, push ON-Timer to end. "ON TIMER END" appears on-screen for a few seconds.

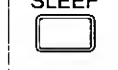


If no button on the remote or Combination VCR (including a button used to turn off the alarm) is pushed within 60 minutes after the Combination VCR turns itself on, it will turn itself back off.

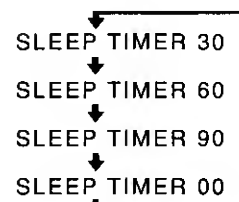
Set the Sleep Timer

The Combination VCR can be set for auto power off.

- Push SLEEP to display the desired sleep timer.



- Each push of SLEEP will change the time in the order shown at right.



- If you push DISPLAY with the SLEEP TIMER set, the remaining time will appear on-screen.

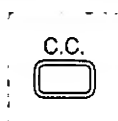
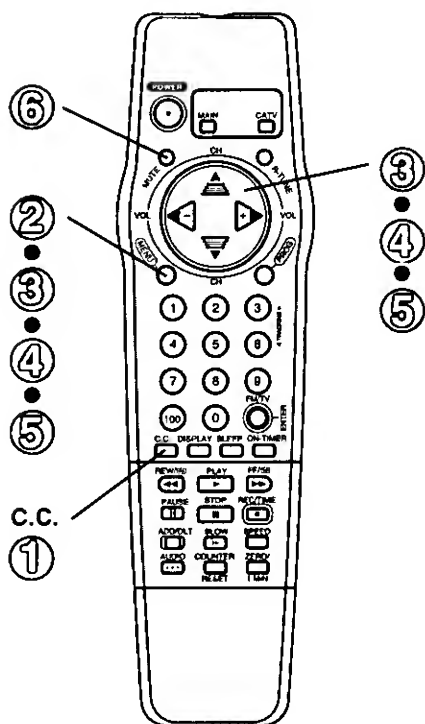
To Cancel, push SLEEP repeatedly until "SLEEP TIMER 00" appears.

CC Closed Caption System

This multi-use system not only allows the hearing impaired to enjoy selected programs, but also makes useful information from TV stations available to everyone.

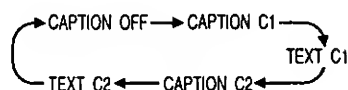
✓ Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



Push C.C. repeatedly to select the desired Caption Mode (see "Caption Mode description" below).

- Selected mode is displayed on screen.
- Each push of C.C. will change the Caption Mode as shown at right:



Closed Caption Modes to Choose From

Caption Mode: CAPTION C1 or C2

A narration of selected TV programs will be displayed on the screen. Check your TV program listings for C.C. (Closed Captioned) broadcasts.

Caption Mode: TEXT C1 or C2

The lower half of the screen will be blocked out. When the TV station broadcasts text, such as program listings, special information, etc., it will appear in this space.

Caption Mode: OFF

Narration will not appear on the screen even if a closed caption or text broadcast is received.

- The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.

Caption On Mute Feature

This feature allows you to turn off the sound and, at the same time, display Closed Caption narration. Perfect for when you need silence, but would like to continue enjoying the program.

1



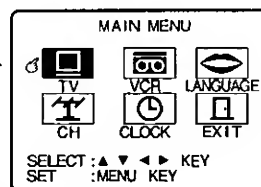
Push C.C. until CAPTION OFF is displayed on screen.

CAPTION OFF

2



Push MENU to display the MAIN MENU.



3

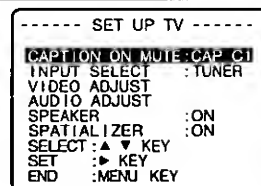


Push ▲ ▼ ◀ ▶ to select "TV," and then push MENU to display the SET UP TV screen.

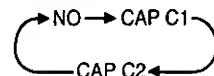
4



Push ▶ repeatedly to select the desired caption on mute mode, and then push MENU to exit the SET UP TV screen.



- Each push of ▶ will change the display as shown at right.



5



Push ▲ ▼ ◀ ▶ to select "EXIT," and then push MENU to exit the MAIN MENU.

6



Push MUTE to instantly mute the sound. The closed caption narration is displayed on the screen.

- Push MUTE again to resume normal sound and picture.
- Not all programs have Closed Caption information, therefore, narration may not be displayed.

Recording and Playing Back a Closed Caption/Text Program

Record: Your Combination VCR will automatically record the Closed Caption/Text signal. Just follow normal recording operation.

Playback: To display the Closed Caption narration or Text during playback, simply push C.C. until desired Caption Mode is displayed.



FM Radio

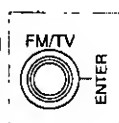
✓ Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.

FM Radio Feature

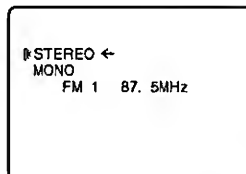
The Combination VCR has an FM radio with built-in antenna, 9 station preset, and a band range of 87.5~108.1 MHz. You can even set the On Timer to wake up to your favorite music station.

①



Push FM/TV on the remote control to select FM Radio mode.

- This screen changes to a black screen after 10 seconds.

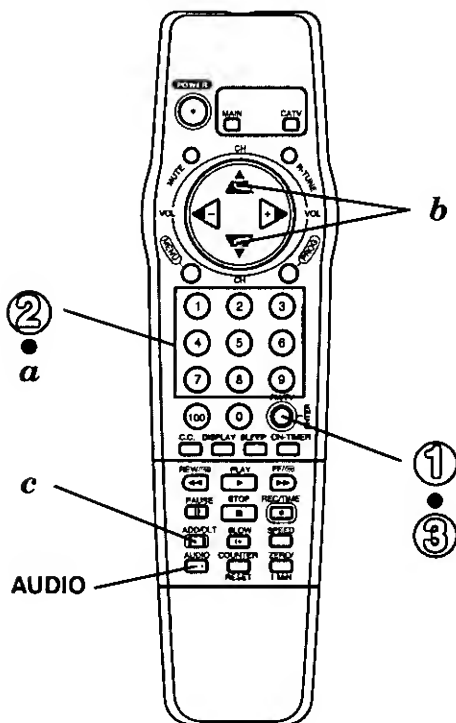
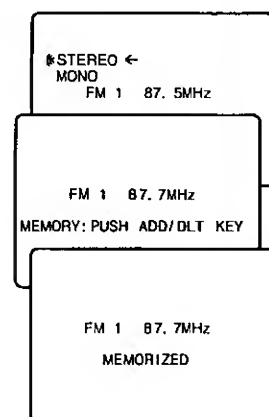


To Memorize Stations

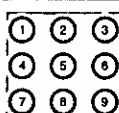
a Push NUMBERED keys (1~9) in FM Radio mode.

b Push ▲ ▼ to select desired radio station.
(Each push changes the frequency by 200 KHz.)

c Push ADD/HLT to memorize the desired station.
• To memorize other positions, repeat steps a~c.



②



Push the Numbered key (1~9) to select a memorized channel (see above).

③

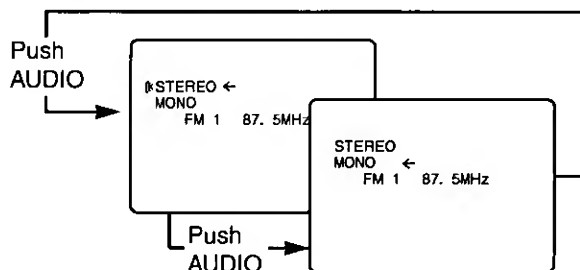


Push FM/TV on the remote control again to exit the FM Radio mode.

To Select Audio Mode for FM Radio

Push AUDIO in FM Radio mode to select "STEREO" or "MONO". Arrow points to current mode.

< Example >



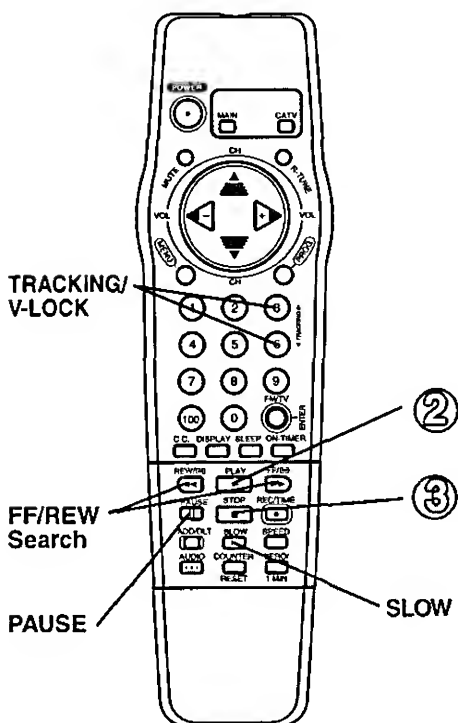
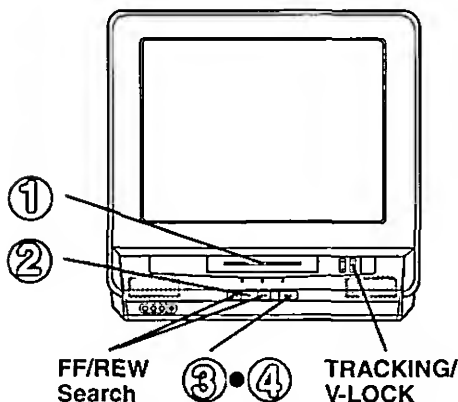
- You can not record FM radio stations on the Video Cassette tape.
- You may get improved FM reception for some stations by repositioning the Combination VCR.
- You can not set to FM Radio mode in the Playback, Recording, and Blue Back OSD screens (MENU, PROGRAM, ON-TIMER, and VCR Plus+).

▶ Playback a Tape



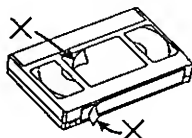
Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.

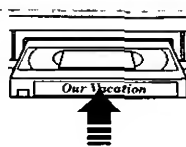


Caution:

Please inspect your cassette tapes for any loose or peeling labels as they may become jammed in your unit.



①



Insert a cassette.

- Combination VCR power comes on automatically.

②



Push PLAY on the remote control or Combination VCR to start playback.

- Playback begins automatically if cassette has no record tab (see page 24).

③



Push STOP on the remote control or Combination VCR to stop playback.

④



Push STOP/EJECT on the Combination VCR to eject the cassette.

- You may eject a cassette with power on or off.

To Find a Particular Scene During Playback



or



Push REW or FF on the remote control or Combination VCR to quickly locate a scene.

- SP mode tapes have a search speed of 9 times and SLP mode 27 times the normal speed.
- Some noise bars will appear during search.

Special Effects During Playback

These features work best in SP or SLP mode. The sound will be muted.

Slow Motion Playback

Push SLOW to start slow motion playback. Push PLAY or SLOW to release.

Still (Freeze) Frame Picture

Push PAUSE to freeze and release the picture.

- To reduce picture noise, first push SLOW. Then, use the 3 or 6 NUMBERED keys on the remote control or CH UP/DOWN on the Combination VCR to clear up the picture, then push PAUSE.

Frame by Frame Advance

While in Still mode, push SLOW repeatedly or hold down to advance the still picture one frame at a time. Push PAUSE or PLAY to release.

(After the Combination VCR is in Still or Slow mode for 3 minutes, it will switch to the Stop mode automatically to protect the tape and the video head.)

Features for a Quality Picture

Digital Auto Tracking

This feature continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control

Use during Playback and Slow Motion mode to reduce picture noise. Push the 3 or 6 NUMBERED keys on the remote control or CH UP/DOWN on the Combination VCR until the picture clears up. To return to Auto Tracking, push POWER off and then on again.

V-Lock Control

In Still mode the 3 or 6 NUMBERED keys on the remote control or CH UP/DOWN on the Combination VCR operate as a V-Lock control to reduce jitter. Push one of these keys until the picture is stabilized.

PanaBlack™ Picture Tube

This Combination VCR uses a PanaBlack™ picture tube for better color reproduction and picture contrast.

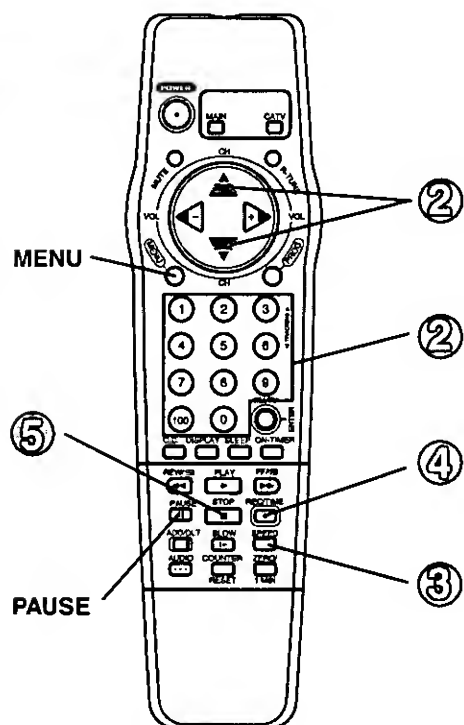
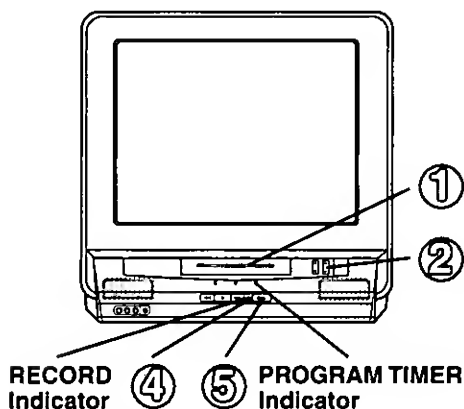


Record On a Tape



Check list before you begin.

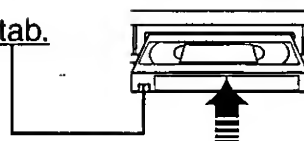
- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



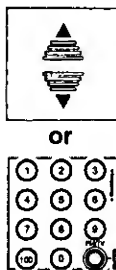
1

Insert a cassette with record tab.

- The Combination VCR power comes on automatically.

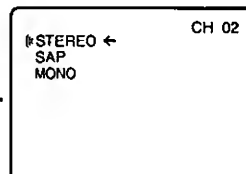


2



Push ▲ ▼ or NUMBERED keys on the remote control to select a channel.

- Or, push CH UP/DOWN on the Combination VCR.
- To record from an outside source, push ▲ ▼ to select LINE (see below).

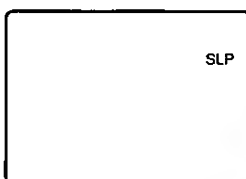


3



Push SPEED until the desired speed appears on-screen (See page 29).

- SP = Standard Play
- LP = Long Play
- SLP = Super Long Play

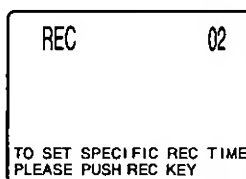


4



Push REC/TIME on the remote control to start recording.

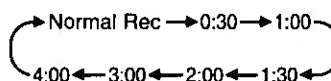
- Or, push REC/TIME on the Combination VCR.
- To edit out unwanted portions, push PAUSE to pause the recording in progress. To release, push PAUSE again.



One Touch Timer Recording (OTR)

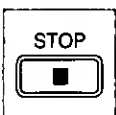
The Combination VCR stops recording at a preset time.

In step 4, push REC/TIME repeatedly to set the length of the recording. Each push will change the time as shown.



- PROGRAM TIMER indicator lights on the front panel.

5



Push STOP on the remote control to stop recording.

- Or, push STOP/EJECT on the Combination VCR.

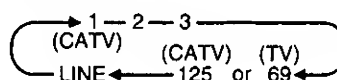


- While it is possible to change the tape speed when you are recording, there will be some distortion on the tape where the change occurred.
- The remaining recording time can be displayed by pushing DISPLAY in OTR mode.
- After the Combination VCR has been in Rec Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.

Selecting the Input Mode

You can select the Input Mode in one of two ways.

- Push ▲ ▼. The display will change in the order below.



- a. Push MENU to display the menu.
- b. Push ▲ ▼ ◀ ▶ to select "TV," and then push MENU to display the SET UP TV screen.
- c. Push ▲ ▼ to select "INPUT SELECT," and then push ▶ repeatedly to select "TUNER" or "LINE."

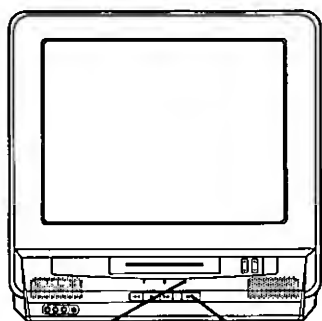


Timer Recording

Your Combination VCR can be set up to do a recording while you are away or otherwise occupied. Up to 8 programs can be placed in memory. You can choose to record one time, daily, or weekly.

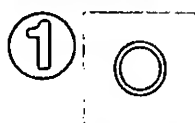
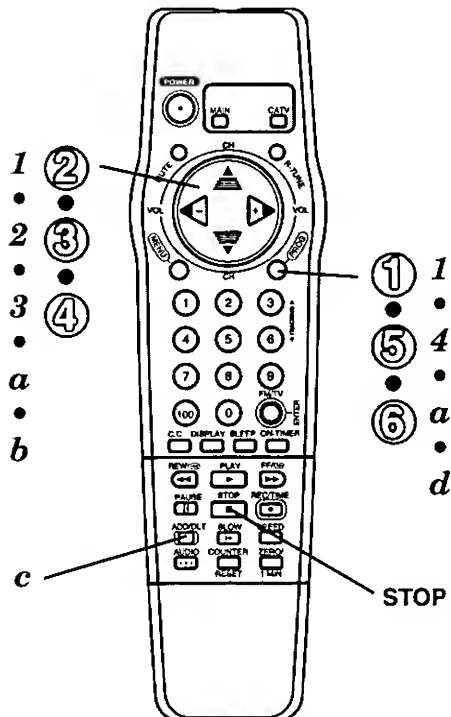
✓ Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.
- ☐ The clock is set.
- ☐ The tape is long enough.
- ☐ The record tab is in place.

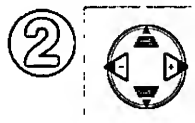
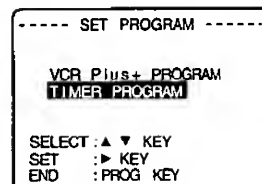


PROGRAM TIMER Indicator

STOP/EJECT

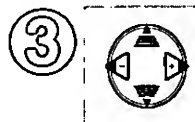
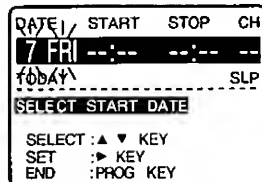


Push PROG to display the "SET PROGRAM" screen.



Push ▲ ▼ to select "TIMER PROGRAM," and then push ► to display the program screen.

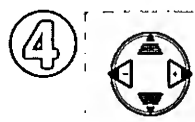
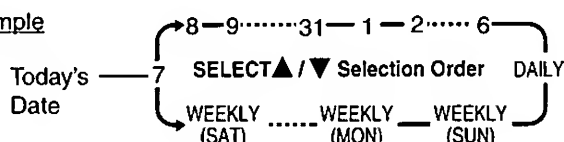
• If a program is already in memory, push ▲ ▼ repeatedly, and then ► to select an unused program number.



Push ▲ ▼ and ► to select and set one of the following:

1~31 = One time recording
DAILY = Same time MON ~ FRI
WEEKLY = Same time once a week

Example



Push ▲ ▼ and ◀ ▶ to select and set each of the remaining items at right.

Remaining Items:

- START time
- STOP time
- CH(annel) number, or LINE for outside source recording
- Speed (SP, LP, SLP)

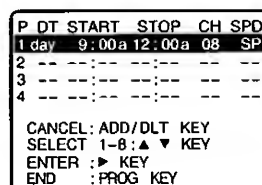
To Make Corrections

Repeatedly push ► to move the cursor to the right, or ◀ to move to the left to the incorrect entry and make the correction.



Push PROG to end the program.

- This screen appears for confirmation.



To Enter More Programs

Push ▲ ▼ and ► to select and set a blank program number, and then repeat steps 3 and 4.



Push PROG twice to return to the normal screen.

- The PROGRAM TIMER indicator lights on the front panel.
- If you're using a cable box, make sure that it is tuned to the desired channel and the power is left on for timer recording.

Two minutes before the Timer Recording starts, "TIMER REC WILL START SOON" will appear on-screen.



- If "PLEASE PREPARE FOR TIMER REC" appears and/or the PROGRAM TIMER indicator flashes, check that a cassette with record tab is loaded and the Combination VCR is in Stop mode.
- If the start times of two programs overlap, the lower numbered program will have priority.
- If the start time for a timer recording comes up during a normal recording or One Touch Recording (page 17), the timer recording will not be performed.
- If there is a power interruption of more than one minute, the recording may not be performed or continue.
- If "INCOMPLETE" appears after all items have been set, check all entries and make necessary corrections.

Cancel a Timer Recording: (Recording is in progress)

Hold down STOP for a few seconds to cancel the Timer Recording.

- Any future daily or weekly recordings will be performed as programmed.

Replace Program Contents: (Recording is not in progress)

- Do steps 1 and 2 on previous page. All currently set programs will be displayed on-screen.

| P | DT | START | STOP | CH | SPD |
|---|----|--------|--------|-----|-----|
| 1 | -- | -- | -- | -- | -- |
| 2 | 8 | 10:00p | 12:00p | 125 | SLP |
| 3 | 10 | 8:00p | 9:00p | 10 | SP |
| 4 | SU | 9:00p | 10:00p | L | SLP |

SELECT: 1-8: ▲ ▼ KEY
ENTER: ► KEY
END: :PROG KEY

- Push ▲ ▼ repeatedly to select the desired timer recording, and then push ► to display the settings. (See page 18.)

- Push ▲ ▼ repeatedly to select, and then push ► to enter replacement information.

| DATE | START | STOP | CH |
|-------|--------|--------|-----|
| 8 SAT | 10:00P | 11:00P | 125 |
| / | / | / | SLP |

SELECT START DATE

SELECT: ▲ ▼ KEY
SET: ► KEY
END: :PROG KEY

- Push PROG three times to exit this mode and return to the normal TV screen.

Review or Clear Program Contents: (Recording is not in progress)

- Do steps 1 and 2 on previous page. All currently set programs will be displayed on-screen.

| P | DT | START | STOP | CH | SPD |
|---|-----|--------|--------|-----|-----|
| 1 | day | 9:00a | 12:00a | 08 | SP |
| 2 | 8 | 10:00p | 12:00p | 125 | SLP |
| 3 | 10 | 8:00p | 9:00p | 10 | SP |
| 4 | SU | 9:00p | 10:00p | L | SLP |

CANCEL: ADD/HLT KEY
SELECT: 1-8: ▲ ▼ KEY
ENTER: ► KEY
END: :PROG KEY

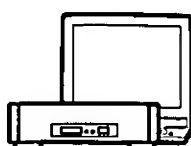
- Push ▲ ▼ repeatedly to select the desired program number.

- Push the ADD/HLT to clear the program.

| P | DT | START | STOP | CH | SPD |
|---|----|--------|--------|-----|-----|
| 1 | -- | -- | -- | -- | -- |
| 2 | 8 | 10:00p | 12:00p | 125 | SLP |
| 3 | 10 | 8:00p | 9:00p | 10 | SP |
| 4 | SU | 9:00p | 10:00p | L | SLP |

SELECT: 1-8: ▲ ▼ KEY
ENTER: ► KEY
END: :PROG KEY

- Push PROG twice to exit this mode and return to the normal TV screen.

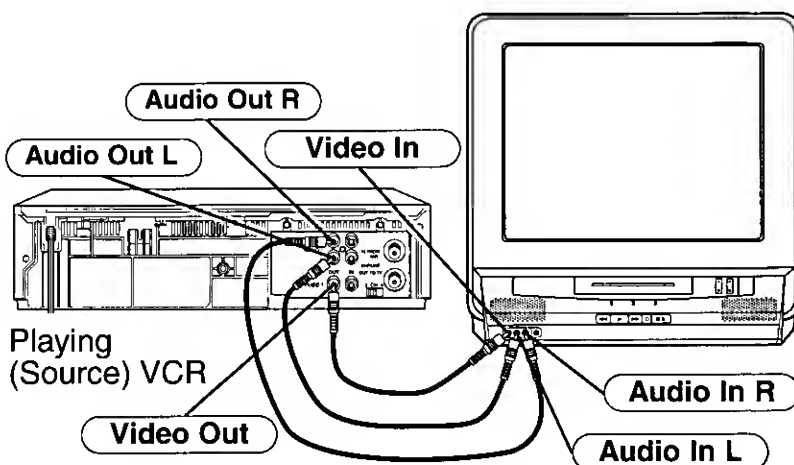


Copying Your Tapes (Dubbing)

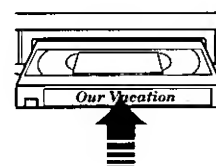
Connections you'll need to make.

- Use this same connection for your video camera, laser disc player, video games, etc.

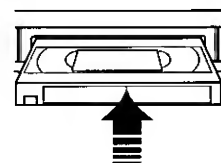
Recording(Editing) Combination VCR



- Insert a pre-recorded tape into the Playing (source) VCR.



- Insert a blank tape with record tab into the Recording (editing) Combination VCR.



- Select "LINE" as the input on the Recording Combination VCR.

- See "Selecting the Input Mode" section on page 17.

- Push PLAY on the playing VCR. Then, push PAUSE when the tape reaches the point you want to start copying.

- Push REC on the recording Combination VCR, and then push PAUSE on the remote control immediately.

- Push PAUSE on both units at the same time to begin copying.

You can edit out unwanted parts of the original recording by using PAUSE (on the Recording unit) while copying is in progress.

- Push STOP on both units to stop copying.

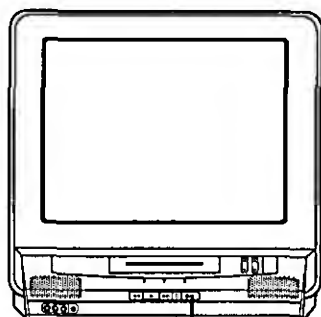
Caution:

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

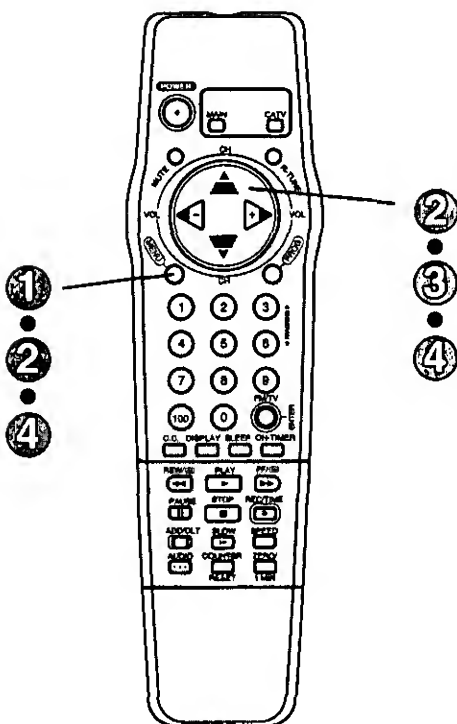
SPECIAL Special VCR Features

✓ Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



STOP/EJECT



VCR Lock Feature

When activated, this feature prohibits all operations except for timer recording and tape eject. This feature is used to keep children from operating the Combination VCR.



Hold down STOP/EJECT on the Combination VCR for 7 seconds during Stop or Power OFF mode.

VCR LOCK ACTIVATED

To Cancel the VCR Lock feature,



Hold down STOP/EJECT on the Combination VCR for 7 seconds again during Stop or Power OFF mode.

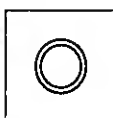
VCR LOCK OFF

- VCR Lock mode is cancelled automatically after 24 hours as long as the clock is set.
- This feature cannot be activated or cancelled when a timer or one touch recording is in progress.

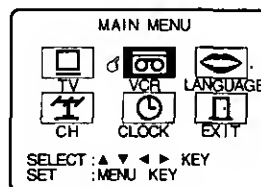
Warning Beeper Feature

When you select BEEPER ON, a short warning will sound each time an invalid entry or incomplete operation is made.

1



Push MENU to display the MAIN MENU.

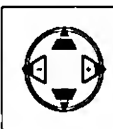


2

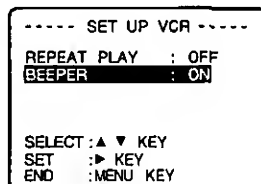


Push ▲▼◀▶ to select "VCR," and then push MENU to display the SET UP VCR screen.

3



Push ▲▼ to select "BEEPER," and then push ▶ to select "ON" or "OFF."



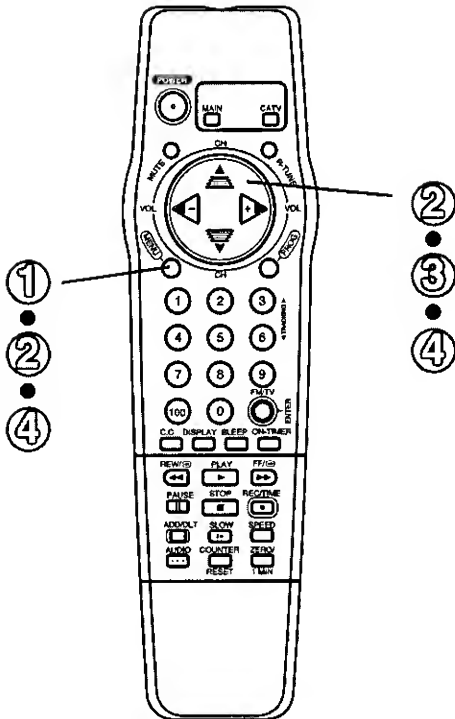
4



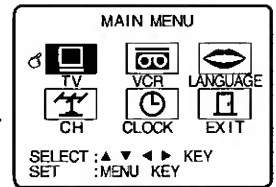
Push MENU to end, and then push ▲▼◀▶ to select "EXIT." Now, push MENU to exit the MAIN MENU.

Speaker On/Off System

Allows you to turn off the speaker of the Combination VCR when it is connected to external audio equipment.

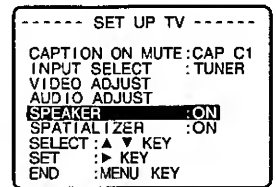


- 1 Push MENU to display the MAIN MENU.



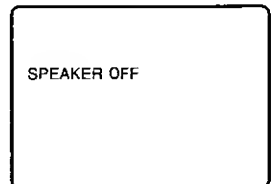
- 2 Push ▲ ▼ ◀ ▶ to select "TV," and then push MENU to display the SET UP TV screen.

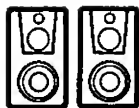
- 3 Push ▲ ▼ to select "SPEAKER," and then push ▶ to select "ON" or "OFF."



- 4 Push MENU to end, and then push ▲ ▼ ◀ ▶ to select "EXIT." Now, push MENU to exit the MAIN MENU.

- In SPEAKER OFF condition, the mute and volume Up/Down buttons do not function. The screen at right appears if these buttons are pushed in SPEAKER OFF mode.

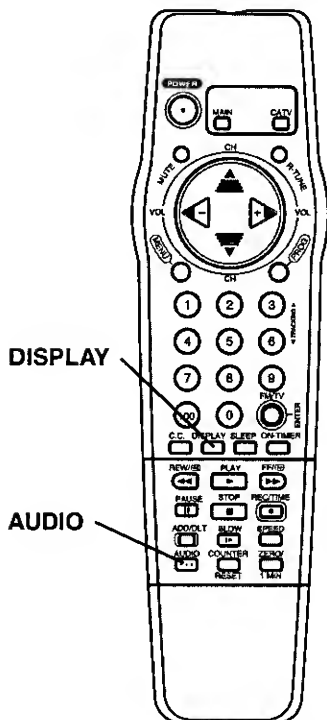




MTS Broadcast/VHS Hi-Fi Stereo System

Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



Receivable Broadcast Types

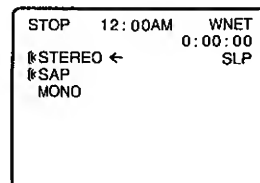
The following are possible broadcast types with their accompanying on-screen displays. The signal being received is indicated with an "Ⓢ" mark while the selected audio mode is indicated with an arrow. To change the audio mode for these broadcasts, follow the "Select Audio Mode for TV Viewing" section. (below)



Push DISPLAY to display the broadcast signal currently being received.

MTS Stereo and SAP broadcast

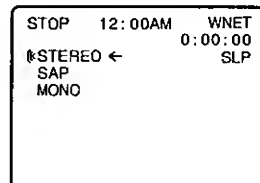
Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select the STEREO or SAP audio mode as desired.



MTS Stereo broadcast

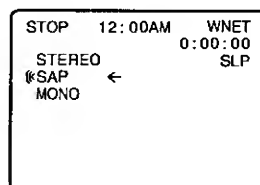
Multi-channel Television Sound Stereo broadcast is being received. Select the STEREO audio mode.

- If a stereo broadcast is weak and the display flickers, you may want to select the MONO audio mode for better results.



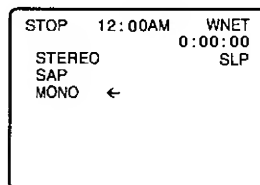
SAP broadcast

Secondary Audio Program (sub language) broadcast is being received. Select SAP audio mode for the sub language.



MONO broadcast

Normal monaural sound broadcast is being received.



Equipped with **dbx**®-TV Noise Reduction for true MTS reproduction.
dbx®-TV Noise Reduction is required for good stereo separation and audio fidelity.
dbx® is a registered trademark, and is licensed by **dbx**® Technology Licensing.

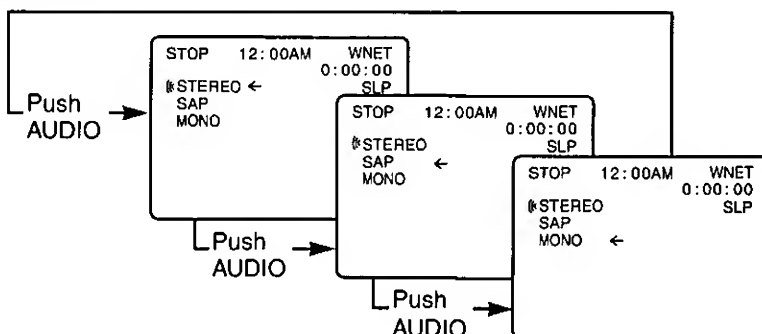
Select Audio Mode for TV Viewing



Push AUDIO to select the desired audio mode as described above. (Arrow shows selection.)

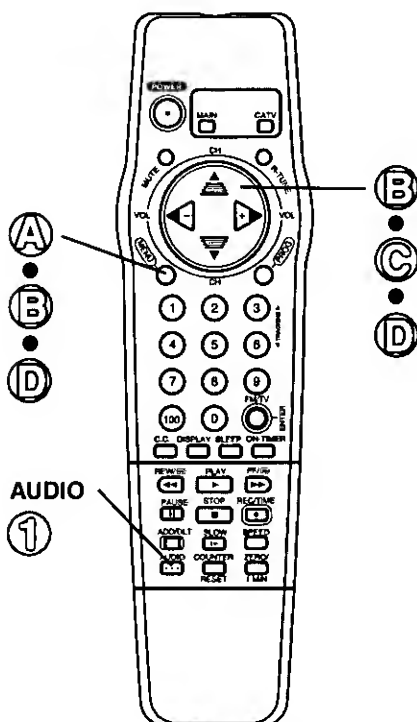
- Each push of AUDIO will change the audio mode as shown below.

< Example >



With the proper audio mode setting, your Combination VCR can:

- record and playback an MTS stereo broadcast (main language) in stereo Hi-Fi. Stereo sound is recorded on the left and right audio tracks and on the video portion of a tape.
- record and playback a monaural broadcast (main language) or an SAP (Secondary Audio Program, usually in a second language) on the Hi-Fi tracks for better quality monaural sound.
- playback non-Hi-Fi tapes in monaural.



Select Audio Mode for Recording

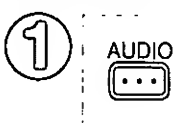
Select the type of broadcast and sound track you wish to record.

- a Do the operation of "Select Audio Mode for TV Viewing" section on previous page.
 - Your recording is always performed according to the audio mode you selected in the "Select Audio Mode for TV Viewing" section on previous page.

- b Do a recording. See the "Record On a Tape" section on page 17.

Select Audio Mode for Playback

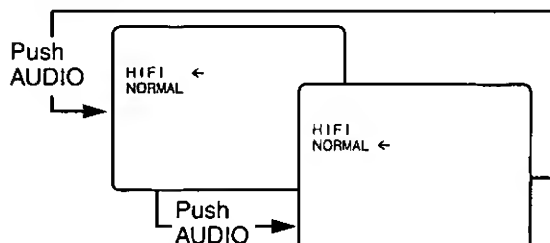
Select the type of sound track you desire for playback.



Push AUDIO repeatedly (each push within 5 seconds) to select the desired audio mode (HIFI/NORMAL).

- Please select HIFI to listen to your stereo recordings with stereo sound or NORMAL for monaural sound.

< Example >



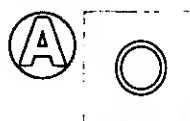
- This screen appears when you push AUDIO during playback.

- 2 Playback the tape. See the "Playback a Tape" section on page 16.

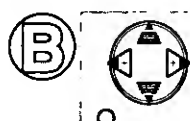
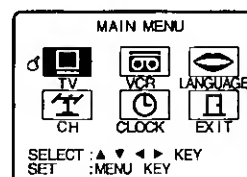
Spatializer Feature

This feature allows you to enhance the stereo sound so that it seems to completely surround you.

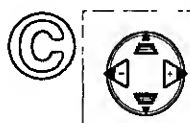
Note: For playback, tapes must be recorded in Hi-Fi stereo. For TV viewing, programs must be broadcast in stereo.



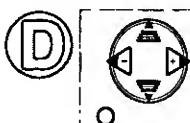
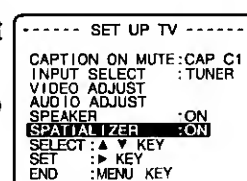
Push MENU to display the MAIN MENU.



Push ▲ ▼ ◀ ▶ to select "TV," and then push MENU to display the SET UP TV screen.



Push ▲ ▼ to select "SPATIALIZER," and then push ▶ to select "ON" or "OFF."



Push MENU to end, and then push ▲ ▼ ◀ ▶ to select "EXIT." Now, push MENU to exit the MAIN MENU.

Portions of this product manufactured under a license from Desper Products, Inc. SPATIALIZER, and the circle-in-square device are trademarks owned by Desper Products, Inc.

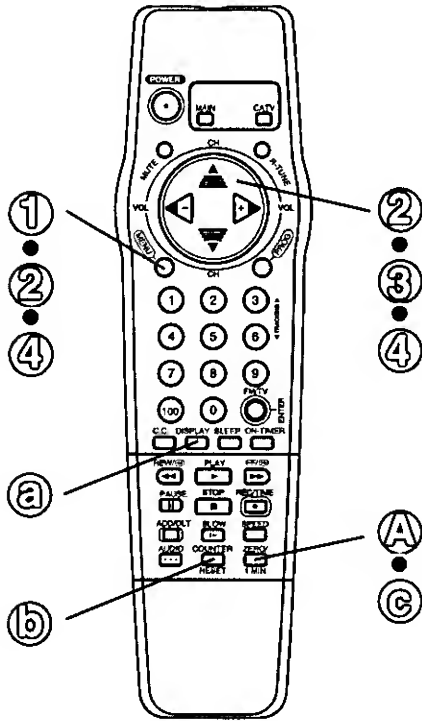


- When purchasing or renting prerecorded tapes, remember that only those recorded in Hi-Fi stereo will play back with true stereo sound. Standard stereo tapes will play back with monaural sound.
- In order to listen to Hi-Fi stereo playback, the Combination VCR AUDIO (L/R) jacks must be connected to a stereo amp and speakers.
- There may be a difference in audio level between Hi-Fi and normal audio playback.



Tape Operation

Your Combination VCR is equipped with several time saving features as well as convenient automatic functions which make tape operation easier than ever.



Auto Operation Functions

Auto Shut Off

In TV or Game mode, when a broadcast signal is not received for 5 minutes, the Combination VCR will automatically power off (except when LINE INPUT is selected).

In Playback mode, when a Video signal is not detected for 5 minutes, the Combination VCR will automatically power off and the tape will be rewound.

- This feature is deactivated when any button on the unit or remote control is pushed even if there is no signal present.

Auto Playback

When a tape is inserted, the power turns on (Auto). If the record tab* is removed, playback begins (Auto).

Auto Rewind

When a tape reaches its end during playback, fast forward or manual record the Combination VCR will rewind and go into Stop mode.

Playback Auto Eject (Repeat Play is "OFF")

When a tape without a record tab* is played to its end, the Combination VCR will rewind and then eject the tape.

Rec Auto Eject

After a tape reaches its end during normal recording, the Combination VCR will rewind and then eject the tape.

Memory Rewind Off

When POWER is pushed during rewind, rewind will be completed even though the Combination VCR turns off.

*For record tab information, see page 29.

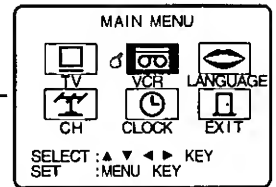
Repeat Play

You can set your Combination VCR up to play a recording over and over.

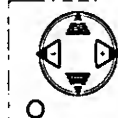
1



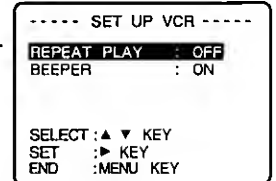
Push MENU to display the MAIN MENU.



2



Push to select "VCR," and then push MENU to display the SET UP VCR screen.

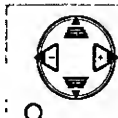


3



Push repeatedly to select "ON" or "OFF."

4



Push MENU to exit the SET UP VCR screen. Then push to select "EXIT." Now, push MENU to exit the MAIN MENU.



You may also turn the repeat play feature on and off at the Combination VCR by pushing PLAY during playback once or twice until the repeat indicator lights up (ON), or goes out (OFF).

One Minute Skip

With this feature, you can skip over commercials recorded on a tape.

A



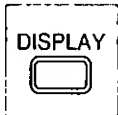
Push ZERO/1MIN in Play mode.

- The Combination VCR will go into FF search mode and skip over 60 seconds of recorded time. Then, normal playback will resume.

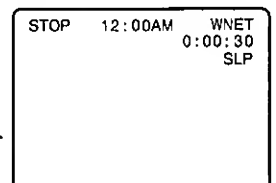
Zero Search

You can reset the Timer Counter to zero and then return to that point.

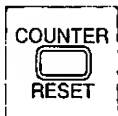
a



Push DISPLAY to display the Time Counter overlay.

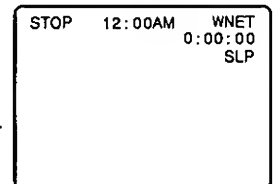


b

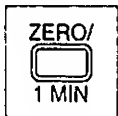


Push COUNTER RESET to reset the Time Counter.

- Reset to 0:00:00 at whatever point you wish on the tape.



c



Push ZERO/1MIN in Stop mode.

- The Combination VCR will go into FF or REW mode and stop at the last point the Time Counter was set to 0:00:00.

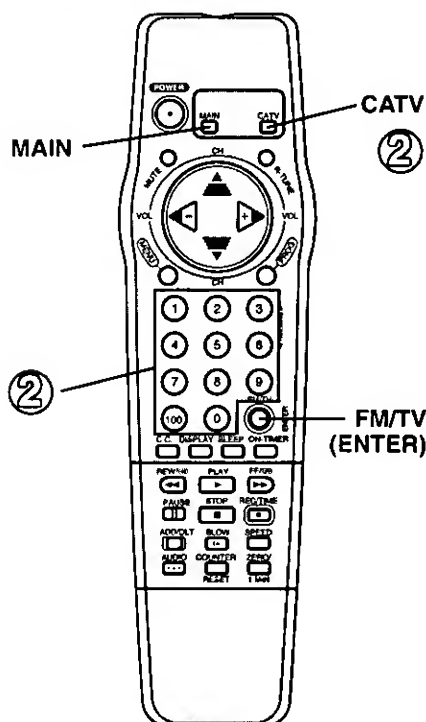


Cable Box Universal Remote Control Operation

The Remote Control may be set up to control some of the functions on your Cable Box.

Cable Box Code Numbers

| | |
|---|--------------------------------|
| Archer | 01, 29, 44, 88, 91 |
| Cableview | 04, 30, 42, 44, 52, 63, 85, 88 |
| Citizen | 04, 30, 42, 44, 52, 63, 85, 88 |
| Curtis | 08, 09, 56, 61, 87, 90 |
| Diamond | 01, 29, 44, 88, 91 |
| Drake | 37, 67, 71 |
| Eagle | 13, 20, 22, 26, 40, 58, 62, 98 |
| Eastern | 28 |
| GC Brand | 04, 30, 42, 44, 52, 63, 85, 88 |
| Gemini | 04, 85 |
| General Electric | 57 |
| General Instruments | |
| 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 | |
| Hamlin | 14, 15, 28, 41, 97, 100, 102 |
| Jerrold | |
| 01, 02, 03, 04, 34, 55, 83, 85, 91, 93, 95 | |
| Macom | 31, 79 |
| Magnavox | 25, 26 |
| Matsushita | 16, 17, 101 |
| Movietime | 32, 38, 40 |
| Movietime | 29, 32, 39, 42, 44, 88 |
| NSC | 32, 38, 40 |
| Oak | 10, 11, 46, 99 |
| Panasonic | 16, 17, 101 |
| Philips | 13, 20, 23, 24, 96 |
| Pioneer | 05, 06, 78 |
| Pulser | 04, 30, 42, 44, 52, 63, 85, 88 |
| Radio Shack | 44 |
| RCA | 16, 17, 101 |
| Realistic | 44, 51, 88 |
| Regal | 14, 41 |
| Regency | 28 |
| Rembran | 29, 32, 39, 42, 44, 88 |
| Salora | 68, 72 |
| Samsung | 32, 40, 42, 78, 94 |
| Scientific Atlanta | 08, 09, 56, 61, 87, 90 |
| Sheritech | 27 |
| SL Marx | 32, 40, 42, 78, 94 |
| Sprucer | 16, 17, 101 |
| Stargate | 32, 40, 42, 78, 94 |
| Stargate | 04, 30, 42, 44, 52, 63, 85, 88 |
| Sylvania | 19 |
| Teknika | 74 |
| Telecaption | 77, 92 |
| Televue | 32, 40, 42, 78, 94 |
| Texscan | 18, 19 |
| Tocom | 01, 33, 34, 42, 48, 49, 91 |
| Toshiba | 36 |
| Uniden Satellite | 65, 69 |
| Unika | 01, 29, 44, 88, 91 |
| Universal | 42, 43, 44, 52, 63, 88 |
| Viewstar | 13, 20, 22, 26, 40, 58, 62, 98 |
| Videoway | 07, 23, 50 |
| Vid Tech | 64 |
| Vidter | 64 |
| Zenith | 07, 23, 50 |



Universal Remote Control Setup

① Find your cable box brand code number from the chart at left.

② While holding down CATV, use the NUMBERED keys to enter your cable box brand code number.

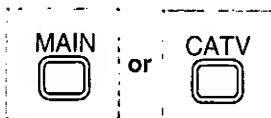
- For code numbers 100 or greater, first push the 100 key. Then, enter the remaining digits.

③ Try each of the functions.

- Due to changes in infra-red commands used by some manufactures, some Cable Box brands are listed more than once. If your Cable Box does not respond to the first code, please try entering the next code.

Using the Universal Remote Control

Once the remote control has been properly setup, you can select MAIN, or CATV mode depending on which functions you wish to control. (See below.)



Push MAIN or CATV on the remote control to select the desired mode. (See below for a list of controllable functions for each mode.)

Set to MAIN:

- All TV and VCR functions

Set to CATV:

- Cable box Power
- Numbered keys
- Channel Up/Down
- Basic VCR functions, e.g. PLAY, REC, etc.
- FM/TV (ENTER)

NOTES:

- In CATV mode, it maybe necessary to push FM/TV (ENTER) after pushing the NUMBERED keys for channel selection.
- In CATV mode, ADD/HLT, MENU, PROG, ON-TIMER, R-TUNE and FM/TV are not available. Push MAIN to use these functions.
- Depending on your cable box brand, some of the functions listed may not be remote controllable.



The remote control is designed to control the brands listed. However, it will not operate all cable Boxes made by these manufactures. If you get no results, your particular product brand cannot be controlled by this remote.

VCR Plus+ Setup

Easy Taping.

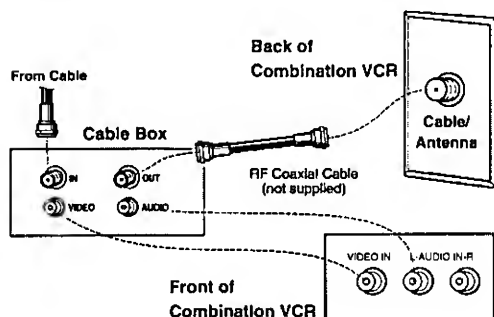
VCR Plus+ programming allows you to set most items of a timer recording by simply entering a special code (PlusCode) found in TV GUIDE magazine as well as the TV listings in selected newspapers. In order for your Combination VCR to do a VCR Plus+ recording, or a timer recording of cable stations, some setup is required.

At first, choose your Connection Type.

(Then, follow the instructions under the diagram.)

Connection Type A

<CABLE BOX → COMBINATION VCR>

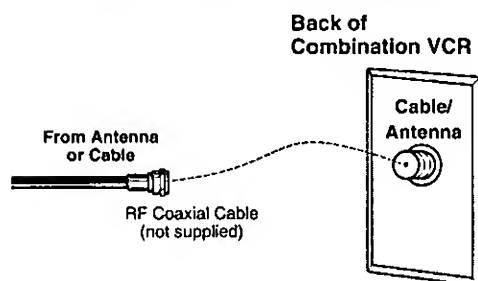


If your system looks like this, do the following.

1. Complete the "Cable Box Setup" section at right.
2. Skip page 27 and go directly to page 28 for VCR Plus+ Programming.

Connection Type B

<CABLE or ANTENNA → COMBINATION VCR>



If your system looks like this, do the following.

1. Skip the "Cable Box Setup" section at right and turn to page 27.
2. Complete the "VCR Plus+ Channel Setup" section on page 27.
3. Turn to page 28 for VCR Plus+ Programming.

VCR Plus+ and PlusCode are trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

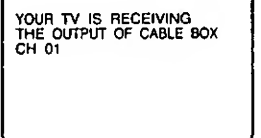
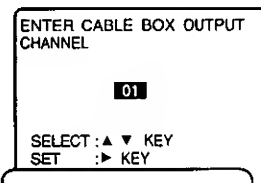
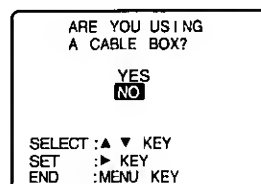
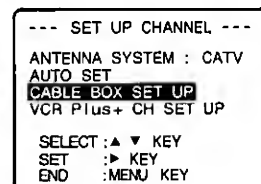
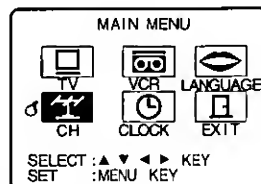
Cable Box Setup

For Connection Type A (see left) only

1. Push MENU to display the MAIN MENU.
2. Push Δ ∇ \leftarrow \rightarrow to select "CH," and then push MENU to display the SET UP CHANNEL screen.
3. Push Δ ∇ to select "CABLE BOX SET UP," and then \rightarrow to set.
4. Push Δ ∇ to select "YES" or "NO," and then push \rightarrow to set.

Select YES if all channels are received via the cable box (connection "A" at left). Then, go to step 5.

Select NO if your cable connection "B" at left. Push MENU to exit and turn to page 27.
5. Push Δ ∇ to select Cable box output channel number, and then push \rightarrow to enter.
6. Push MENU to exit this mode and then, push Δ ∇ \leftarrow \rightarrow to select "EXIT." Now, push MENU to exit from the MAIN MENU.

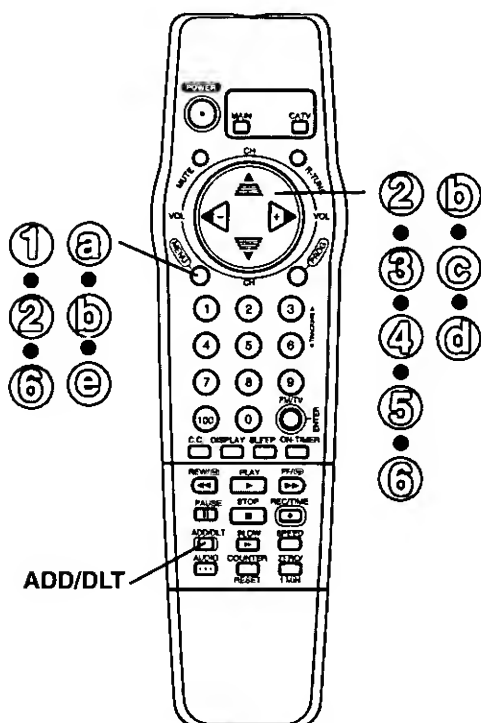


- This display appears for 5 seconds. (Channel shown is example only)

- If necessary, refer to your cable box manual.
- If you are using Audio/Video jack connection for your cable box, select and set "VIDEO OUT" as the output channel.

Go directly to VCR Plus+ Programming on page 28.

In order for the Combination VCR to read the VCR Plus+ code, some setup is required. A Guide (VCR Plus+) channel number is assigned to each local broadcast and cable station. Because this number sometimes differs from the channel your TV receives the station on, it is necessary to program the Combination VCR with local channel information.



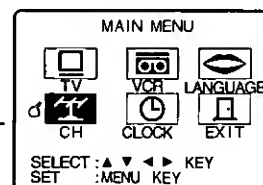
VCR Plus+ Channel Setup For Connection Type B (page 26) only

- Before you begin, complete the Channel Setup Preparations below left.

Important Note:

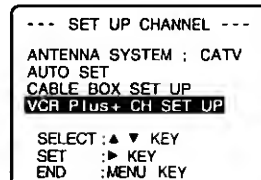
If your Combination VCR Connection type changes, from Type A to B, repeat step 4 of previous page, select "NO".

- (a) Push MENU to display the MAIN MENU.



- (b) Push to select "CH," and then push MENU to display the SET UP CHANNEL screen.

- (c) Push to select "VCR Plus+ CH SET UP," and then push to display the "VCR Plus+ CH SET UP" screen.



Channel Setup Preparations

NOTE:

Complete the steps on this page if your Combination VCR hook-up resembles "B" on page 26.

Prepare a list like the example below.

This list will help you smoothly enter the information needed in step "d" at right.

You will need the following to complete the list:

▲ A line up of normal and/or cable stations you receive along with the channel numbers your TV receives them on. A cable channel line-up chart is supplied by your cable company.

▲ A list of Guide (VCR Plus+) channel numbers assigned to the stations you receive. This list is available in TV Guide and the TV listings found in selected newspapers.

- 1 Make a chart with 3 columns like the example below. In the left column, fill in the name or call letters of the stations you receive.
- 2 In the middle column, fill in each station's assigned Guide (VCR Plus+) number found in TV Guide, newspapers, etc.
- 3 In the right column, fill in the channel number that your TV receives the station on from your channel line-up.

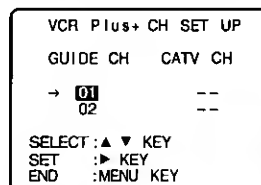
< EXAMPLE ONLY >

| Broadcast or Cable Station Name | Assigned Guide (VCR Plus+) channel no. | Channel no. your TV receives the station on |
|---------------------------------|--|---|
| HBO | 33 | 15 |
| Nickelodeon | 38 | 20 |
| CBS | 34 | 04 |
| FOX | 11 | |

IMPORTANT NOTE:

For step "d", use the list you prepared at left. You may leave lines blank if you don't receive that station, or if the GUIDE CH number and the CATV (or TV) CH numbers are the same.

- (d) Push to move the shaded area to the right side.



Then, push to change the CATV(or TV) CH number.

Next, push to set the CATV(or TV) CH number.

Now, push to continue. Repeat this operation until the list is complete.

To Make Corrections

Push and to select the incorrect CATV or TV CH number. Then, push to change, or ADD/HLT to delete the channel.

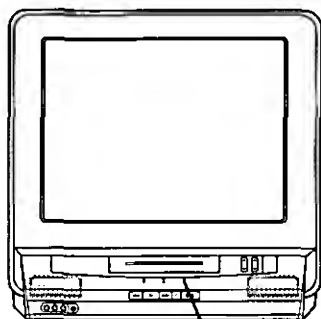
- (e) Push MENU twice to exit the VCR Plus+ CH SET UP. Then, push to select "EXIT." Now, push MENU to exit the MAIN MENU.

NOTES

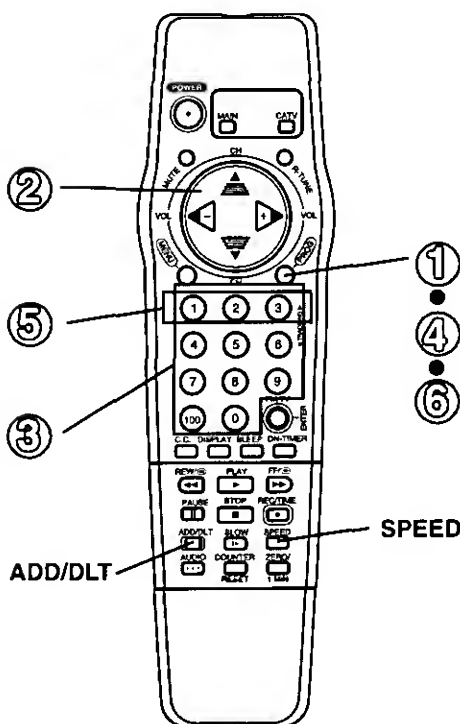
- Make each entry within 5 minutes or the Combination VCR will leave this mode.
- Once local channels have been programmed, they will stay in memory, even in the case of a power failure.

✓ Before you begin, make sure...

- ☐ The clock is set.
- ☐ VCR Plus+ Set Up is complete (See pages 26, 27).



PROGRAM TIMER Indicator



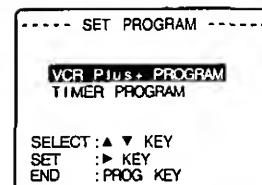
ADD/DLT

SPEED

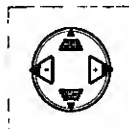
①



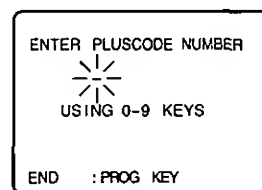
Push PROG to display the "SET PROGRAM" screen.



②

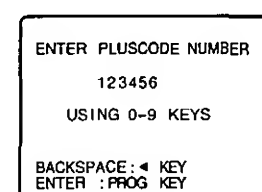


Push Δ ∇ to select "VCR Plus+ PROGRAM," and then push \triangleright to display the Plus Code screen.



③

Push NUMBERED keys to enter the PlusCode number from your local TV listings.



To Make Corrections

Push \triangleleft repeatedly to delete the PlusCode number. Then, enter the correct number.

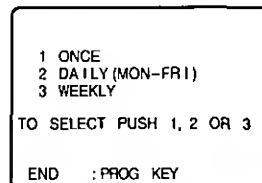
④



Push PROG to lock in your program.

⑤

Push the 1, 2, or 3 key to select the program type.



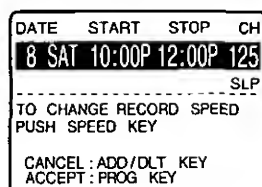
To Change the Recording Speed

Push SPEED for SP, LP, or SLP.

To Cancel Program Contents

Push ADD/DLT.

- If you use connection type "A" on page 26, the channel shown in this on-screen display will always be the cable box output channel number.

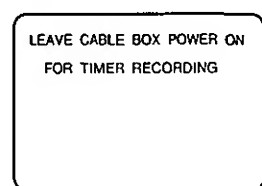


⑥



Push PROG three times to complete the program.

- The PROGRAM TIMER indicator lights on the front panel.
- If you're using a cable box, make sure that it is tuned to the desired channel and the power is left on for timer recording.



- This display appears if you use a cable box.



- For a list of publications that carry the PlusCode numbers in your area, call 1-800-258-4827.
- You can obtain unlisted PlusCode numbers by calling 1-900-454-7587. Call costs approximately \$.95 per minute.
- Avoid overlapping program times.
- An on-screen display will indicate if an invalid PlusCode number has been entered.
- An on-screen display will indicate when all timer programs are full.



Unit and Cassette Information

Erase Protection (Record Tab)

Cassettes have a record tab to ensure that recordings are not accidentally erased.

To prevent accidental erasure, break off the tab with a screwdriver.



To record again, cover the hole with cellophane tape.



Maximum Record/Playback Time

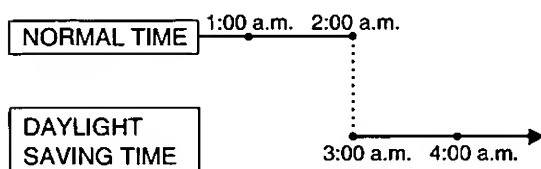
Only use tapes with the **VHS** mark in this unit.

| Tape Speed Setting | Type of Video Cassette | | |
|-----------------------|------------------------|---------|--------------------|
| | T60 | T120 | T160 |
| SP (Standard Play) | 1 Hour | 2 Hours | 2 Hours 40 minutes |
| LP (Long Play) | 2 Hours | 4 Hours | 5 Hours 20 minutes |
| SLP (Super Long Play) | 3 Hours | 6 Hours | 8 Hours |

D.S.T. (Daylight Saving Time)

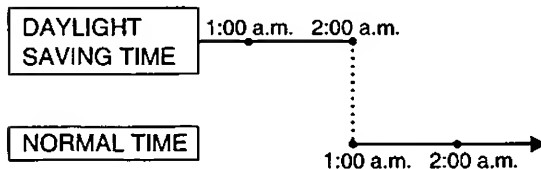
Spring (First Sunday in April)

When the Combination VCR is set to DST:ON, it automatically adds one hour and adjusts the clock.



Autumn (Last Sunday in October)

When the Combination VCR is set to DST:ON, it automatically turns back one hour and adjusts the clock.



SELF-DEMO MODE

In Power ON condition, hold down PLAY/REPEAT on the Combination VCR, with no tape inserted, for 5 seconds. The demo screen appears.

To cancel: Repeat the above operation. The demo screen disappears.

Reset all Combination VCR Memory Functions

Use when moving the Combination VCR to a new location, or if a mistake was made in the One Time Setup section.

- Make sure a tape is not inserted in the Combination VCR.

- 1) Push POWER to turn the Combination VCR on.
- 2) Hold down both the PLAY and REWIND buttons on the Combination VCR for more than 5 seconds.

- The power will shut off.

- 3) Turn the power back on and perform the One Time Setup section on page 8.

Head Cleaning

Your Combination VCR will not normally require head cleaning, however the heads may become clogged when playing an old or damaged tape.

Video Heads Sensor System

If head cleaning becomes necessary, the Combination VCR will display the screen at right while playing back a recorded signal. To exit this screen, push PLAY on the remote control or Combination VCR.

VIDEO HEADS MAY
NEED CLEANING
PLEASE INSERT HEAD
CLEANING CASSETTE
OR REFER TO MANUAL

END:PLAY KEY

- Use "dry" type head cleaning cassette* only.
- Be sure to follow the cleaning tape instructions carefully. Excessive use of a cleaning cassette can shorten head life.
- If using a head cleaning cassette does not solve the problem, contact your nearest Factory Service Center or authorized Service Center. (See page 31.)

*Cleaning cassette part No. NV-TCL30PT is recommended.

Product Specifications

Display

Picture Tube: 27 inch measured diagonal 100° deflection Picture Tube

VCR

Video Recording System: 4 rotary heads helical scanning system
Audio Track: 1 track
2 channel (Hi-Fi Audio Sound)

Tuner:

Broadcast Channels: VHF 2~13, UHF 14~69
CATV Channels: Midband A through I (14~22)
Superband J through W (23~36)
Hyperband AA~EEE (37~64)
Lowband A-5~A-1 (95~99)
Special CATV channel 5A (01)
Ultraband 65~94, 100~125

FM Radio

Band range: 87.5~108.1 MHz

General

Power Source: 120V AC, 60 Hz
Power Consumption: Approx. 157 watts (Power on)
Approx. 7 watts (Power off)
Television System: EIA Standard NTSC color
Speaker: 2 pieces
Operating Temperature: 41°F~104°F (5°C~40°C)
Operating Humidity: 10%~75%
Weight: 85.9 lbs. (39 Kg)
Dimensions: 27-1/16" (W) X 27-15/16" (H) X 21-5/16" (D)
688 (W) X 659 (H) X 542 (D) mm

Note: Designs and specifications are subject to change without notice.



Before Requesting Service

Check the following points once again if you are having trouble with your Combination VCR.

| Power | Correction |
|--|---|
| No power... | <ul style="list-style-type: none">• Completely insert the Power Plug into an AC wall outlet.• Set the POWER button to ON. |
| Monitor | Correction |
| No picture or sound... | <ul style="list-style-type: none">• Make sure your antenna or cable system is connected to the Combination VCR. (P. 5)• Check that the power plug is completely plugged into an AC outlet.• Check that the POWER button is set to on. |
| Poor picture with normal sound... | <ul style="list-style-type: none">• Adjust the BRIGHT, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P. 12) |
| Poor sound with normal picture... | <ul style="list-style-type: none">• Adjust the VOLUME control. (P. 11) |
| Poor TV reception... | <ul style="list-style-type: none">• Adjust the SHARPNESS and PICTURE controls in the SET UP TV menu. (P. 12) |
| No color or poor color... | <ul style="list-style-type: none">• Adjust the TINT and COLOR controls in the SET UP TV menu. (P. 12) |
| Ghost (multiple) images... | <ul style="list-style-type: none">• Install a directional antenna. |
| TV programs cannot be watched... | <ul style="list-style-type: none">• Make sure that the channel being received is in the Combination VCR's memory. (P. 8) |
| VCR | Correction |
| TV program cannot be recorded... | <ul style="list-style-type: none">• Make sure your antenna or cable system is connected to the Combination VCR. (P. 5)• Make sure that the record tab is intact on the cassette. (P. 29) |
| Timer recording cannot be performed... | <ul style="list-style-type: none">• Set the recording Start/Stop time correctly. (P. 18-19)• Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during a Timer Recording, even if power resumes thereafter. |
| No playback picture, or the playback picture is noisy or contains streaks... | <ul style="list-style-type: none">• Adjust the TRACKING control in either direction. (P. 16) |
| VCR cannot be controlled... | <ul style="list-style-type: none">• Make sure that VCR LOCK is set to off. (P. 20) |
| Remote Control | Correction |
| Combination VCR cannot be remote controlled... | <ul style="list-style-type: none">• Aim the Remote Control directly at the remote sensor on the Combination VCR. (P. 7)• Avoid all obstacles which may interfere with the signal path.• Inspect the remote batteries for possible replacement. (P. 4)• Make sure that VCR LOCK is set to off. (P. 20)• Exposing the Combination VCR remote sensor to direct fluorescent or outdoor light may cause signal interference. |
| The MENU, PROG, ON-TIMER and FM/TV cannot be used... | <ul style="list-style-type: none">• Push the MAIN button to select MAIN mode. (P. 25) |
| Miscellaneous | Correction |
| Video cassette cannot be inserted... | <ul style="list-style-type: none">• Insert cassette with window side up and the record tab facing you. |
| Video cassette cannot be removed... | <ul style="list-style-type: none">• Check that the power plug is completely plugged into an AC outlet. |
| Eject does not function or insertion cannot be done... | <ul style="list-style-type: none">• Turn the POWER off and then on, and try ejecting or inserting the tape again. |
| Video cassette ejects when a recording is started, or the power is turned off for timer recording... | <ul style="list-style-type: none">• Make sure the record tab is intact on the cassette. (P. 29) |
| In stop mode, the VCR motor (CYLINDER) continues to rotate... | <ul style="list-style-type: none">• To enable the quick play mechanism, the VCR cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode from Play to Rewind Search mode. |
| VCR cannot be controlled... | <ul style="list-style-type: none">• Make sure that VCR LOCK is set to off. (P. 20) |

If you cannot resolve your problem, please call the Customer Satisfaction Center for product assistance at 201-348-9090.

To locate an authorized servicer call toll free 1-800-545-2672.

Service Center List

PRODUCT INFORMATION • OPERATION ASSISTANCE • LITERATURE REQUESTS • DEALER LOCATIONS

Customer Service Center 2F-3, One Panasonic Way, Secaucus, NJ 07094 (Headquarters)
201-348-9090 (9:00am-8:00pm Monday-Friday, EST)

ACCESSORY PURCHASES

Panasonic Services Company 20421 84th Avenue South Kent, WA 98032
(6 am to 6 pm Monday-Friday ; 6 am to 10:30 am Saturday ; PST)
(Visa, Mastercard, Discover card, American Express, Check)

AUTHORIZED SERVICENTERS • PARTS DISTRIBUTOR LOCATIONS

To locate an independent authorized servicer or parts distributor in your area,
within the USA dial toll free **1-800-545-2672**, 24 hours a day, 7 days a week.

PRODUCT REPAIRS

Factory Servicenters

CALIFORNIA

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Fax (415) 871-6840
20201 Sherman Way
Suite 102
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Phone (818) 709-1775
Fax (818) 709-2165
3878 Ruffin Road
Suite A
San Diego, CA 92123
Phone (619) 560-9200
Fax (619) 560-1831

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1640 South Abilene Suite D
Aurora, CO 80012
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Fax (303) 752-0610

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3700 North 29th Avenue
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Phone (954) 925-2880
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Phone (813) 884-4746
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8655 Roswell Road
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Atlanta, GA 30350
Phone (770) 518-6301
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99-859 Iwaiwa Street
Aiea, Hawaii 96701
Phone (808) 488-4369
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1703 North Randall Road *
Elgin, IL 60123
"12:30 to 4:30, Mon-Fri"
Phone (847) 468-5464
Fax (847) 468-5465

9060 Golf Road
Niles, IL 60714
Phone (847) 608-1010
Fax (847) 299-1710

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Sulphur Springs
Business Park
1638 Sulphur Springs Road
Baltimore, MD 21227
Phone (410) 242-2607
Fax (410) 247-3047

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60 Glacier Drive, Suite G
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Phone (617) 329-4280
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* pick-up/drop-off only

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37048 Van Dyke Avenue
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Phone (810) 939-2060
Fax (810) 939-2638

MINNESOTA

7850-12th Avenue South
Airport Business Center
Bloomington, MN 55425
Phone (612) 854-8624
Fax (612) 854-2089

OHIO

2236 Waycross Road
Cincinnati, OH 45240
Phone (513) 851-4180
Fax (513) 851-8443

PENNSYLVANIA

2221 Cabot Boulevard West
Suite B
Langhorne, Pa 19047
Phone (215) 741-0661
Fax (215) 741-0521

Chartiers Valley Shopping
Center
1025 Washington Pike
Bridgeville, PA 15017
Phone (412) 257-4522
Fax (412) 257-4650

TENNESSEE

919-8th Avenue South
Nashville, TN 37203
Phone (615) 244-4434
Fax (615) 244-6713

TEXAS

7482 Harwin Drive
Houston, TX 77036
Phone (713) 781-1528
Fax (713) 781-0643

13615 Welch Road
Suite 101
Farmers Branch, TX 75244
Phone (972) 385-1975
Fax (972) 960-7626

WASHINGTON

20425-84th Avenue South
Kent, WA 98032
Phone (206) 872-7922
Fax (206) 872-0918

Service in Puerto Rico

**Matsushita Electric
of Puerto Rico, Inc.
Panasonic Sales Company/
Factory Servicenter**
Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985
Phone (787) 750-4300
Fax (787) 768-2910

EAST (PCE)

REPAIR INQUIRIES

Regional Customer Care Department

2221 Cabot Boulevard West
Suite A
Langhorne, PA 19047
Phone (215) 741-0676
Fax (215) 750-6492

Covers:

CT, DE, ME, MD, MA, NH, NJ,
NY, PA, RI, VT, VA, DC, WV

EAST (PCE)

1225 Northbrook Parkway
Suite 2-390
Suwanee, GA 30174
Phone (770) 338-6860
Fax (770) 338-6548

Covers:

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1707 North Randall Road
Elgin, IL 60123
Phone (847) 468-5530
Fax (847) 468-5528

Covers:

AR, IL, IN, IA, KS, KY, LA,
MI, MN, MO, NE, ND, OK,
SD, TX, WI, OH

WEST (PCW)

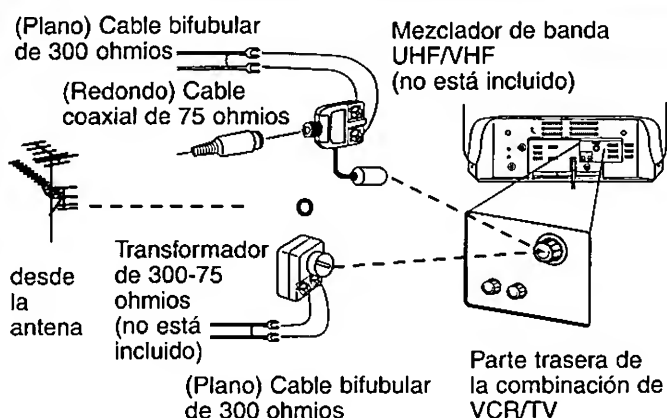
6550 Katella Avenue
Cypress, CA 90630
Phone (714) 373-7440
Fax (714) 373-7447

Covers:

AK, AZ, CA, CO, ID, MT, NV,
NM, OR, UT, WA, WY, HI

Conexión de la antena externa

Desenganche la antena del televisor o de la videograbadora que tuviera anteriormente y conéctela a la parte trasera del registrador Combinación de VCR/TV, como se muestra en el diagrama. Si el sistema de su antena tiene conductores UHF y VHF separados, usted necesita un mezclador de banda UHF/VHF (no viene con el equipo).



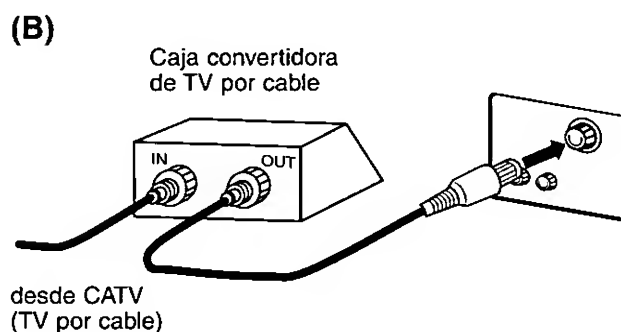
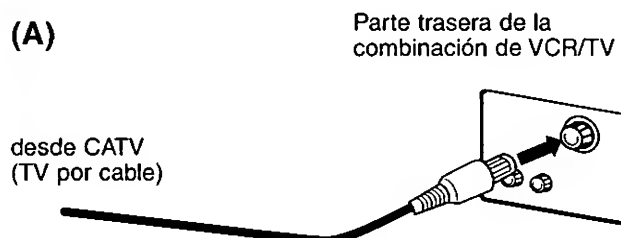
Conexiones de TV por cable

(A) Sin la caja convertidora/decodificadora

Con esta conexión usted podrá utilizar su control remoto de la combinación de VCR/TV para seleccionar los canales que desea ver y seleccionar canales no codificados para su grabación programada. Esta conexión no permite ver ni grabar canales codificados.

(B) Con una caja convertidora/decodificadora

Con esta conexión, usted podrá grabar y ver cualquier canal, incluyendo los canales codificados. Sin embargo, la selección de canales se debe efectuar en la caja convertidora de TV por cable que suministra esta empresa. La grabación programada está limitada a un canal cada vez, y sólo se podrá ver el canal que esté grabando.

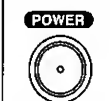


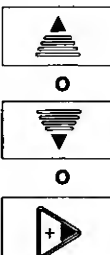
Para ver y grabar un canal codificado/no codificado

Sintonice el canal del Registrador de la combinación de VCR/TV en el canal de salida de la caja convertidora de televisión por cable (por ejemplo el canal 3). Después, seleccione en la caja convertidora de TV por cable el canal que se quiera ver o grabar.

Para fijar el idioma, canal y reloj

Al encender la combinación de VCR/TV por primera vez, aparecerán las pantallas para fijar automáticamente los canales y el reloj.

1  Oprimir POWER para encender el aparato.


2  Oprimir ▲, ▼ o ► para la exhibición de la pantalla en inglés, español o francés.

SELECT LANGUAGE

PUSH CH ▲ :English

PULSE CH ▼ :Español

APP. VOL + :Français

3  **Importante:** si está usando una caja de TV por cable, encienda la caja y sintonice al canal PBS de su zona.

FIJACION AUTO. (CA/RELOJ)

CONECTE EL CABLE DE LA ANTENA Y SI ESTA USANDO UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO...

POR FAVOR OPRIMIR CH UP

Oprimir ▲ para iniciar la fijación de los canales y el reloj.

Las siguientes informaciones aparecerán seguidamente:

- AUTOPROGRAMACION EN PROCESO
- AUTOPROGRAMACION COMPLETO
- FIJACION AUTOMATICA DEL RELOJ EN PROCESO

Caso 1

7/28/1997 LUN 12:00PM
HORA VERANIEGA: ACT
CANAL FIJADO : CA 10
FIJACION AUTOMATICA
COMPLETO
TERMINAR : PULSE CH UP

Caso 2

FIJACION AUTOMATICA DEL
RELOJ ES INCOMPLETO
PULSE MENU
PARA FIJAR EL RELOJ

4 **Caso 1** Comprobar si la hora está fijada para terminar la fijación.

Si la hora y la hora veraniega es incorrecta, Raras veces, en caso de que ud. vive cerca de dos zonas con hora diferente, el aparato puede elegir un canal PBS con diferente hora de su zona. En este caso, haga los siguientes pasos:

- Tome nota del canal que está fijado en la pantalla y salga desde este modo oprimiendo el botón ▲.
- Anule este canal desde los canales memorizados en la combinación de VCR/TV.
- Oprima el botón MENU para que aparezca la pantalla del MENU.
- Oprima ▲ ▼ ◀ ▶ para elegir "RELOJ" y luego oprima MENU para que aparezca la pantalla de FIJACION DEL RELOJ.
 - Si ud. esta usando una caja de TV por cable y tiene muchos canales PBS, sintonice la caja de TV por cable a un canal PBS diferente e intente la fijación automática otravez usando el menú.
- Oprimir ▲ ▼ para elegir "FIJACION AUTOMATICA", luego oprimir ► para fijar y oprimir ▲ para iniciar.

- Por cualquier razón, si ha cambiado la hora manualmente, no funcionará la corrección automática de la hora.
- La fijación automática del reloj efectuará cada día al apagar la combinación de VCR/TV por primera vez. Si ud. usa una caja de TV por cable y desea efectuar la fijación automática del reloj, la caja de TV por cable debe permanecer encendido y sintonizado el canal PBS cuando se apaga la combinación de VCR/TV.

Caso 2 Si aparece FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO, por favor fije el reloj manualmente.

- Oprimir MENU para que aparezca la pantalla de la fijación del reloj.
- Oprimir ▲ ▼ para elegir y oprimir ► para fijar el mes, la fecha, el año, la hora y la hora veraniega.

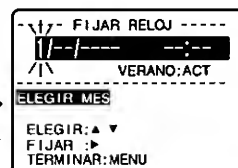
Para hacer correcciones,

- Oprimir ◀ ▶ repetidamente para retroceder o avanzar hasta el paso que desea corregir.
- Oprimir MENU para iniciar a funcionar el reloj. Luego oprimir ▲ ▼ ◀ ▶ para elegir "SALIR" y oprimir MENU para salir de la pantalla del MENU PRINCIPAL.

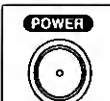
Para fijar o fijar de nuevo el reloj

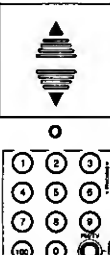
En caso de que el reloj es incorrecto o ha ocurrido un corte eléctrico.


- Oprima MENU para que parezca el MENU PRINCIPAL.
- Oprima ▲ ▼ ◀ ▶ para elegir "RELOJ". Luego, oprima MENU para que aparezca la pantalla de la FIJACION DEL RELOJ.
- Oprima ▲ ▼ para elegir "FIJACION MANUAL", y luego ► para que aparezca la pantalla de la FIJACION DEL RELOJ.
- Por favor continúe con los pasos b y c de la instrucción anterior (Caso 2).



Operaciones para ver la TV

1  Oprimir POWER para encender la combinación de VCR/TV.

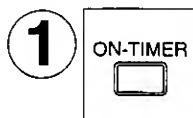
2  Elegir el canal usando ▲ ▼ o usando la teclas numéricas.

3  Oprimir ◀ ▶ para ajustar el nivel del volumen.

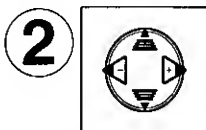
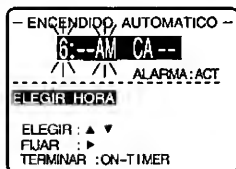


Encendedor automático con alarma

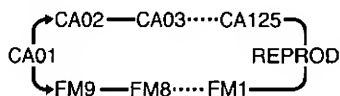
La combinación de VCR/TV se puede fijar para que se encienda automáticamente en uno de los tres modos (TV, reproducción o radio FM). Ud. también puede combinar con un alarma despertador de un minuto.



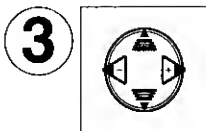
Oprimir ON TIMER para que aparezca la pantalla del encendedor automático.



Oprimir ▲ ▼ para elegir y oprimir ► para fijar la hora del encendedor automático y luego para elegir el modo (TV, reproducción o radio FM). Vea el orden para elegir a la derecha.

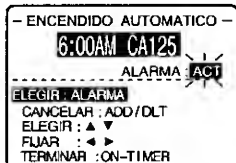


- Asegúrese de que una cinta de video esté introducido en la combinación de VCR/TV, si ha elegido la reproducción de la videograbadora.

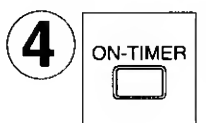


Oprimir ▲ ▼ para elegir la fijación del alarma.

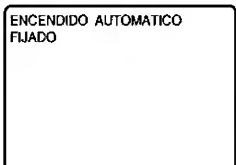
Si ha elegido "ACT", sonará un alarma por un minuto o hasta cancelar oprimiendo cualquiera de las teclas del control remoto. Cuando se apaga el alarma, sonará el sonido del modo que ha elegido.



Para hacer correcciones, use ▲ ▼ y ► ◄ para retroceder o avanzar como se necesita.



Oprimir ON TIMER para fijar la función del encendedor automático. Esta pantalla aparecerá cerca de 5 segundos.



- El indicador de ON TIMER (encendedor automático) se encenderá en el panel delantero.

Para cancelar, oprima ON-TIMER para que aparezca de nuevo la pantalla del paso 3. Luego, oprima ADD/DLT para anular la hora ("6" destellará). Ahora, oprima ON-TIMER para terminar. "ENCENDIDO AUTOMATICO ANULADO" aparecerá unos segundos en la pantalla.

60 minutos luego de que la combinación de VCR/TV se ha encendido automáticamente, éste se apagará por sí mismo si no se ha oprimido ningún botón del control remoto o del aparato.

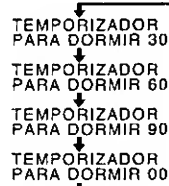
Fijación del temporizador para dormir

La combinación de VCR/TV se puede fijar para que se apague automáticamente.



Oprimir SLEEP para que aparezca el tiempo de la fijación.

- Si ud. oprime el botón DISPLAY con el temporizador para dormir fijado, aparecerá en la pantalla el tiempo que sobra para apagarse.



Para cancelar, oprimir SLEEP sucesivamente hasta que aparezca "TEMPORIZADOR PARA DORMIR 00".

Operaciones básicas para la reproducción

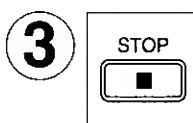
1 Introducir una cinta.

- La combinación de VCR/TV se enciende automáticamente.



Oprimir PLAY en el control remoto o combinación de VCR/TV para comenzar a reproducir.

- Si la cinta no tiene la lengüeta para evitar el borrado, la combinación de VCR/TV comienza a reproducir automáticamente.



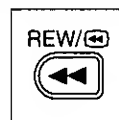
Oprimir STOP en el control remoto o combinación de VCR/TV para parar la reproducción.



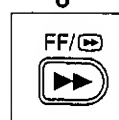
Oprimir STOP/EJECT en la combinación de VCR/TV para expulsar la cinta.

- Usted puede expulsar la cinta cuando el aparato está encendido o apagado.

Para buscar una escena en particular durante la reproducción



Oprimir REW o FF durante la reproducción para buscar una escena.




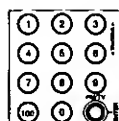
- La velocidad de búsqueda es a 9 veces más rápida que la velocidad normal para el modo SP y 27 veces más rápida para el modo SLP.



Operaciones básicas para la grabación

- 1 Introducir una cinta de video que tenga la lengüeta para evitar el borrado.

- la combinación de VCR/TV se enciende automáticamente.

- 2 Oprimir  o las teclas numéricas para elegir el canal.



- U oprimir  de la combinación de VCR/TV.
- Para grabar desde una fuente externa, oprimir  y elija LINEA.

- 3 Oprimir **SPEED** hasta que aparezca la velocidad deseada.

SP = reproducción normal
LP = reproducción larga
SLP = reproducción super larga

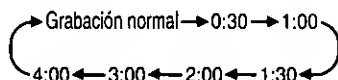
- 4 Oprimir **REC/TIME** del control remoto para empezar a grabar.

- U oprimir REC/TIME de la combinación de VCR/TV.
- Oprimir PAUSE para hacer una pausa en la grabación de un toque.

Grabación de un toque (OTR)

La combinación de VCR/TV se puede fijar para parar la grabación a una hora fijada anteriormente.

En el paso 4, oprimir repetidamente REC/TIME para fijar el tiempo de grabación.



- La luz indicador de la grabación programada (TIMER) se enciende en el panel delantero.



- 5 Oprimir **STOP** para parar la grabación.

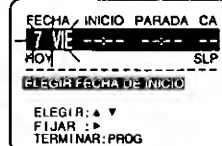
- U oprimir STOP/EJECT de la combinación de VCR/TV.



Grabación con temporizador

- 1 Oprimir **PROG** para que aparezca la pantalla "FIJAR PROGRAMACION."



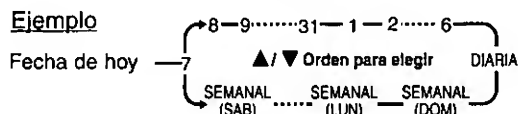
- 2 Oprimir  y luego oprimir  para exhibir la pantalla de la programación.



- Si ya existe una programación memorizada, oprima  y  para elegir un número sin programación.

- 3 Oprimir  y  para elegir y fijar uno de los siguientes:

1~31 = Grabación de una sola vez
DIARIO = A una misma hora LUN ~VIE
SEMANTAL = Una vez a la semana a una misma hora





- 4 Oprimir  y  para elegir y fijar las siguientes fijaciones.

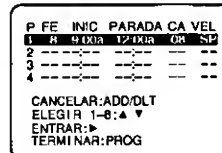
Fijaciones:

- Hora de inicio
- Hora de parada
- Canal o LINEA para una fuente externa
- Velocidad de la cinta (SP, LP, SLP)



Para hacer correcciones

Oprimir  sucesivamente para avanzar u  para retroceder hasta el paso que desea corregir.

- 5 Oprimir **PROG** para terminar la programación.



Para hacer más programaciones

Oprimir  y  para elegir y fijar un número de programa en blanco y luego repita los pasos 3 y 4.

- 6 Oprimir **PROG** dos veces para salir desde este modo y volver a la pantalla normal.

- La luz indicador de la grabación programada (TIMER) se enciende en el panel delantero.
- Si ud. está usando una caja de TV por cable, asegúrese de que esté sintonizado el canal deseado y que esté encendido para la grabación con temporizador.

Dos minutos antes de empezar la grabación, "GRABACION PROGRAMADA INICIARA ENSEGUIDA" aparecerá en la pantalla.

Warranty

Panasonic Consumer Electronics
Company, Division of Matsushita
Electric Corporation of America,
One Panasonic Way
Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
AVE. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

PANASONIC Video Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

| PRODUCT | PARTS | |
|-------------|--|--|
| CAMCORDER | ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS | NINETY (90) DAYS NINETY (90) DAYS |
| VCR | ONE (1) YEAR | NINETY (90) DAYS |
| A/V MIXER | ONE (1) YEAR | NINETY (90) DAYS |
| MONITOR-VCR | ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS | NINETY (90) DAYS CRT - NINETY (90) DAYS CUSTOMER PAYS ALL LABOR CHARGES AFTER 90 DAYS |

Monitor-VCR In-home or carry-in Service: 19" (diagonal) CRT / LCD and Larger
Monitor-VCR Carry-in Service: 18" (diagonal) CRT / LCD and smaller

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free, 1-800-545-2672, to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.

warvid 2/11/97

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